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AN ATLAS OF 1975 GEOS-3 RADAR ALTIMETER DATA FOR HURRICANE/TROPICAL DISTURBANCE STUDIES

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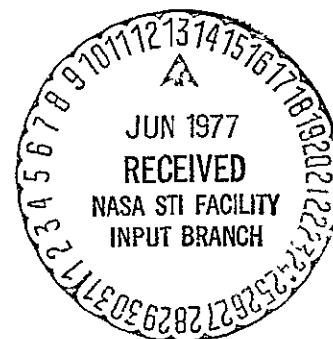
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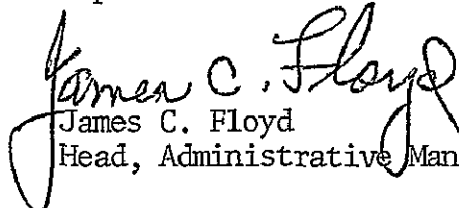
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NASA TM X-69364 An Atlas of 1975 GEOS-3 Radar Altimeter
Data for Hurricane/Tropical Disturbance Studies.

We are forwarding, under separate cover, thirty (30) additional
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James C. Floyd
Head, Administrative Management Branch
Enclosures

| | | | | | |
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| 15 Supplementary Notes | | | | | |
| 16 Abstract This document's primary purpose is to provide the means for locating and extracting GEOS-3 altimeter data acquired for the analysis of specific hurricanes, tropical storms and other disturbances. This data is also expected to be extremely useful in the analysis of the behavior of the altimeter instrument in the presence of severe meteorological disturbances as well as provide a data base which can be useful in the resolution of apparently anomalous geoid or sea surface characteristics. Geographic locations of 1975 hurricanes and other tropical disturbances have been correlated with the closest approaching orbits of the GEOS-3 satellite and its radar altimeter. The disturbance locations and altimeter data were gathered for a seven-month period beginning with GEOS-3 launch in mid-April 1975. Areas of coverage were the Atlantic Ocean, the Caribbean, the Gulf of Mexico, the west coast of the continental United States, and the central and western Pacific Ocean. Volume I contains disturbance coverage data for the Atlantic Ocean, Gulf of Mexico, and Eastern Pacific Ocean. Central and Western Pacific coverage is documented in Volume II. | | | | | |
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FOREWORD

This document is made possible through the cooperative efforts of Dr. Clifford L. Rufenach of the Atlantic Oceanographic and Meteorological Laboratory of NOAA and the GEOS-3 Project Team of the NASA Wallops Flight Center. The information regarding the Western Pacific storms was extracted from the document entitled "1975 Annual Typhoon Report" of the Joint Typhoon Warning Center.

This document's primary purpose is to provide the means for locating and extracting GEOS-3 altimeter data acquired for the analysis of specific hurricanes, tropical storms and other disturbances. This data may also be extremely useful in the analysis of the behavior of the altimeter instrument in the presence of severe meteorological disturbances as well as provide a data base which can be useful in the resolution of apparently anomalous geoid or sea surface characteristics.

For presentation purposes, and to enhance the usefulness of this document, the source materials were put into a "standardized" format. This "standard" format was devised, in part, to provide for the later inclusion of missing information or data which are currently unavailable. The format provides for the addition of such data as updates to the GEOS data, meteorological data, etc., with a minimum of impact on the document as it is currently structured. This is particularly true for the GEOS data due to the fact that only scheduled information was used and no attempt has been made to correlate this information with the actual existence of data.

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1.0 INTRODUCTION

This document is the result of recent efforts to correlate 1975 preliminary best tracks of hurricanes and other tropical disturbances with the closest approaching orbits of the GEOS-3 satellite and its radar altimeter. The material presented herein is a compilation of all the tracking data available at the time this document was prepared plus geographical plots of the various storms showing their proximity to GEOS-3 orbits.

The data contained herein were gathered over a seven-month period beginning with GEOS-3 launch in mid-April 1975. Areas of coverage were the Atlantic Ocean, the Caribbean, the Gulf of Mexico, the west coast of the continental United States, and the central and western Pacific Ocean. For presentation purposes, and to enhance the useability of this document, much of the source data were re-formatted. However, a large portion of the raw data for the western Pacific could not be used because the coding system used for recording the data could not be interpreted; hence this material has been presented in its original form in Appendix A.

The geographic plots (storm versus GEOS-3 orbit) were based on data received from NOAA and data concerning the GEOS-3 orbital information. A plot was made on a day-by-day basis for each particular disturbance. Storm position (latitude, longitude) was tabulated as reported either at regular intervals (up to a maximum of four times per day) or at random intervals (1 to 3 times) during each 24-hour period. In addition, each plot lists the GEOS-3 orbit numbers of interest, the longitude at which the satellite's orbits crossed the equator, the time of equator crossing, and the time of the PCA (the point of closest approach of each orbit to the storm).

From the plots a determination was made of the orbits during which the radar altimeter was actually scheduled to collect data at points close enough to make the data useful for the study of storm characteristics. For those orbits, the altimeter on-off times, mode, and unique number were recorded. It should be pointed out that the GEOS-3 altimeter schedule information is just that - the schedule. No attempt has been made to correlate this schedule information with the actual existence of data.

In addition to the information presented on the charts, other data received from NOAA are presented in tabular or graphic form. Where available, the following types of data are provided:

- . wind velocity
- . plots of preliminary best tracks
- . storm pressure profiles
- . storm stage (classification or status at a particular point in time).

The altimeter mode information indicated on the daily GEOS/storm plots can be decoded as follows:

| <u>Mode #</u> | <u>Mode</u> |
|---------------|---|
| 702 | <ul style="list-style-type: none"> . Altimeter Intensive Mode . Data Rate - Lo (TM Form 1) . Altitude Data Rate - 10/sec. . Waveform Data and Rate - 16 averaged waveform samples at one per ≈ 2.2 seconds each . Both pre and post bit-cal performed. |
| 703 | <ul style="list-style-type: none"> . Global Mode Data . Lo Data Rate (TM Form 1) . Both pre and post bit-cal performed. |
| 711 | <ul style="list-style-type: none"> . Altimeter Intensive Mode . Data Rate - Hi (TM Form 3) . Altitude Data Rate - 100/sec. . Waveform Data and Rate - 8 even numbered instantaneous waveform samples at 100/sec. each. 16 averaged waveform samples at one per ≈ 3.2 seconds each. . Both pre and post bit-cal performed. |
| 708 | <ul style="list-style-type: none"> . Altimeter Intensive Mode . Data Rate - Hi (TM Form 2) . Altitude Data Rate - 10/sec. |

| <u>Mode #</u> | <u>Mode</u> |
|---------------|--|
| | <ul style="list-style-type: none"> . Waveform Data and Rate - 16 instantaneous waveform samples at 100/sec. each. . Both pre and post bit-cal performed. . 16 averaged waveform samples at one per ≈ 3.2 seconds each. |
| 802 | <ul style="list-style-type: none"> . Altimeter Intensive Mode . Data Rate Lo (TM Form 1) . 16 averaged waveform samples at one per ≈ 2.2 seconds each. |
| 803 | <ul style="list-style-type: none"> . Global Mode Data . Lo Data Rate (TM Form 1) |
| 808 | <ul style="list-style-type: none"> . Altimeter Intensive Mode . Data Rate Hi (TM Form 2) . 16 instantaneous waveform samples at 100/sec. each. . 16 averaged waveform samples at one per 3.2 seconds each. |

Table 1-1 lists those GEOS tracks which show the best possibility of correlation with storm activity. This summary list was compiled from all of the daily GEOS/storm plots and is listed in time order showing the GEOS rev., storm name and the page number of the corresponding GEOS/storm ground track plot.

TABLE 1-1
SUMMARY LISTING OF SCHEDULED GEOS REVS VS STORMS

| <u>ORBIT #</u> | <u>STORM</u> | <u>PAGE #</u> | <u>ORBIT #</u> | <u>STORM</u> | <u>PAGE #</u> |
|----------------|--------------|---------------|----------------|--------------|---------------|
| 1113 | Amy | 2.2-3 | 1250 | Denise | 3.6-6 |
| 1121 | Amy | 2.2-4 | 1256 | Denise | 3.6-6 |
| 1137 | Bridgett | 3.3-4 | 1265 | Carlotta | 3.5-9 |
| 1141 | Amy | 2.2-5 | 1271 | Carlotta | 3.5-9 |
| 1142 | Amy | 2.2-5 | 1271 | Denise | 3.6-7 |
| 1150 | Amy | 2.2-6 | 1278 | Denise | 3.6-10 |
| 1150 | Bridgett | 3.3-5 | 1279 | Carlotta | 3.5-10 |
| 1155 | Amy | 2.2-6 | 1279 | Denise | 3.6-8 |
| 1156 | Amy | 2.2-6 | 1280 | Carlotta | 3.5-10 |
| 1164 | Amy | 2.2-7 | 1293 | Eleanor | 3.7-2 |
| 1165 | Bridgett | 3.3-6 | 1299 | Denise | 3.6-9 |
| 1170 | Amy | 2.2-7 | 1299 | Eleanor | 3.7-2 |
| 1178 | Amy | 2.2-8 | 1307 | Eleanor | 3.7-3 |
| 1181 | Bridgett | 3.3-7 | 1321 | Denise | 3.6-11 |
| 1184 | Amy | 2.2-8 | 1321 | Eleanor | 3.7-4 |
| 1185 | Carlotta | 3.5-3 | 1322 | Denise | 3.6-11 |
| 1186 | Bridgett | 3.3-7 | 1322 | Eleanor | 3.7-4 |
| 1186 | TD4 | 3.4-2 | 1328 | Denise | 3.6-11 |
| 1186 | Carlotta | 3.5-3 | 1328 | Eleanor | 3.7-4 |
| 1194 | Carlotta | 3.5-4 | 1335 | Denise | 3.6-12 |
| 1198 | Amy | 2.2-9 | 1491 | Blanche | 2.3-6 |
| 1201 | Bridgett | 3.3-8 | 1495 | No Name-A | 4.3-15 |
| 1201 | TD4 | 3.4-3 | 1505 | Blanche | 2.3-7 |
| 1206 | Denise | 3.6-3 | 1511 | Blanche | 2.3-7 |
| 1213 | Denise | 3.6-3 | 1519 | Blanche | 2.3-8 |
| 1229 | Carlotta | 3.5-6 | 1535 | Francene | 3.8-2 |
| 1229 | Denise | 3.6-4 | 1549 | Francene | 3.8-3 |
| 1235 | Denise | 3.6-5 | 1555 | Francene | 3.8-3 |
| 1237 | Carlotta | 3.5-7 | 1568 | Mamie | 4.4-5 |
| 1243 | Carlotta | 3.5-7 | 1582 | Mamie | 4.4-6 |

TABLE 1-1
SUMMARY LISTING OF SCHEDULED GEOS REVS VS STORMS (Cont.)

| <u>ORBIT #</u> | <u>STORM</u> | <u>PAGE #</u> | <u>ORBIT #</u> | <u>STORM</u> | <u>PAGE #</u> |
|----------------|--------------|---------------|----------------|--------------|---------------|
| 1587 | Nina | 4.5-4 | 1886 | Rita | 4.10-9 |
| 1601 | Nina | 4.5-5 | 1889 | Ilsa | 3.11-6 |
| 1602 | Nina | 4.5-5 | 1894 | Rita | 4.10-9 |
| 1616 | Nina | 4.5-6 | 1903 | Ilsa | 3.11-7 |
| 1625 | Nina | 4.5-6 | 1909 | Rita | 4.10-10 |
| 1630 | Nina | 4.5-7 | 1923 | Rita | 4.11-11 |
| 1724 | Ora | 4.7-4 | 1931 | Caroline | 2.4-6 |
| 1763 | Georgetta | 3.9-3 | 1936 | Susan | 4.11-2 |
| 1767 | Ora | 4.7-7 | 1937 | Susan | 4.11-2 |
| 1767 | Phyllis | 4.8-4 | 1943 | Susan | 4.11-3 |
| 1781 | Phyllis | 4.8-5 | 1948 | Ilsa | 3.11-10 |
| 1787 | Phyllis | 4.8-6 | 1960 | Caroline | 2.4-8 |
| 1795 | Phyllis | 4.8-6 | 1962 | Ilsa | 3.11-11 |
| 1795 | No Name-B | 4.9-3 | 1966 | Caroline | 2.4-8 |
| 1801 | Phyllis | 4.8-7 | 1974 | Caroline | 2.4-9 |
| 1809 | Phyllis | 4.8-7 | 1979 | Susan | 4.11-4 |
| 1809 | No Name-B | 4.9-4 | 1980 | Susan | 4.11-4 |
| 1815 | Phyllis | 4.8-8 | 1988 | Caroline | 2.4-10 |
| 1815 | Rita | 4.10-4 | 1988 | Katrina | 3.13-3 |
| 1824 | Phyllis | 4.8-8 | 1993 | Susan | 4.11-5 |
| 1824 | Rita | 4.10-4 | 1994 | Susan | 4.11-5 |
| 1826 | Hilary | 3.10-7 | 2005 | Jewel | 3.12-8 |
| 1838 | Phyllis | 4.8-9 | 2007 | Susan | 4.11-6 |
| 1838 | Rita | 4.10-5 | 2008 | Susan | 4.11-6 |
| 1844 | Rita | 4.10-6 | 2017 | Caroline | 2.4-12 |
| 1846 | Ilsa | 3.11-3 | 2017 | Katrina | 3.13-5 |
| 1852 | Rita | 4.10-6 | 2019 | Jewel | 3.12-9 |
| 1858 | Rita | 4.10-7 | 2022 | Doris | 2.5-7 |
| 1860 | Ilsa | 3.11-4 | 2023 | Caroline | 2.4-12 |
| 1866 | Rita | 4.10-7 | 2023 | Susan | 4.11-7 |
| 1867 | Ilsa | 3.11-4 | 2024 | Katrina | 3.13-6 |
| 1872 | Rita | 4.10-8 | 2028 | Tess | 4.12-4 |

TABLE 1-1
SUMMARY LISTING OF SCHEDULED GEOS REVS VS STORMS (Cont.)

| <u>ORBIT #</u> | <u>STORM</u> | <u>PAGE #</u> | <u>ORBIT #</u> | <u>STORM</u> | <u>PAGE #</u> |
|----------------|--------------|---------------|----------------|--------------|---------------|
| 2031 | Caroline | 2.4-13 | 2149 | Winnie | 4.14-5 |
| 2031 | Doris | 2.5-8 | 2150 | Tess | 4.12-12 |
| 2033 | Jewel | 3.12-10 | 2150 | Winnie | 4.14-5 |
| 2037 | Susan | 4.11-8 | 2155 | Tess | 4.12-13 |
| 2037 | Tess | 4.12-4 | 2155 | Winnie | 4.14-6 |
| 2045 | Caroline | 2.4-14 | 2184 | Winnie | 4.14-8 |
| 2045 | Doris | 2.5-9 | 2205 | Winnie | 4.14-9 |
| 2051 | Doris | 2.5-9 | 2208 | Eloise | 2.6-9 |
| 2051 | Susan | 4.11-9 | 2222 | Eloise | 2.6-10 |
| 2051 | Tess | 4.12-5 | 2230 | Eloise | 2.6-10 |
| 2057 | Tess | 4.12-6 | 2236 | Eloise | 2.6-11 |
| 2065 | Doris | 2.5-10 | 2241 | Alice | 4.15-4 |
| 2065 | Tess | 4.12-6 | 2244 | Eloise | 2.6-11 |
| 2071 | Tess | 4.12-7 | 2249 | Alice | 4.15-4 |
| 2076 | Katrina | 3.13-9 | 2264 | Alice | 4.15-6 |
| 2078 | Tess | 4.12-7 | 2264 | Betty | 4.16-6 |
| 2084 | Tess | 4.12-8 | 2264 | Eloise | 2.6-13 |
| 2085 | Tess | 4.12-8 | 2265 | Eloise | 2.6-13 |
| 2085 | Viola | 4.13-2 | 2269 | Betty | 4.16-6 |
| 2088 | Doris | 2.5-12 | 2273 | Eloise | 2.6-13 |
| 2090 | Katrina | 3.13-10 | 2285 | Faye | 2.7-5 |
| 2094 | Tess | 4.12-8 | 2287 | Eloise | 2.6-14 |
| 2094 | Viola | 4.13-2 | 2287 | Lily | 3.15-4 |
| 2099 | Tess | 4.12-9 | 2308 | Eloise | 2.6-16 |
| 2099 | Viola | 4.13-3 | 2315 | Eloise | 2.6-16 |
| 2108 | Tess | 4.12-9 | 2315 | Faye | 2.7-7 |
| 2108 | Viola | 4.13-3 | 2318 | Lily | 3.15-6 |
| 2114 | Viola | 4.13-4 | 2320 | Betty | 4.16-9 |
| 2122 | Tess | 4.12-10 | 2320 | Faye | 2.7-7 |
| 2122 | Viola | 4.13-4 | 2321 | Eloise | 2.6-17 |

TABLE 1-1
SUMMARY LISTING OF SCHEDULED GEOS REVS VS STORMS (Cont.)

| <u>ORBIT #</u> | <u>STORM</u> | <u>PAGE #</u> | <u>ORBIT #</u> | <u>STORM</u> | <u>PAGE #</u> |
|----------------|--------------|---------------|----------------|--------------|---------------|
| 2321 | Faye | 2.7-8 | 2435 | Faye | 2.7-16 |
| 2326 | Betty | 2.16-10 | 2435 | Gladys | 2.8-14 |
| 2335 | Faye | 2.7-9 | 2443 | Faye | 2.7-16 |
| 2336 | Eloise | 2.6-18 | 2443 | Gladys | 2.8-14 |
| 2336 | Faye | 2.7-9 | 2449 | Gladys | 2.8-15 |
| 2343 | Faye | 2.7-9 | 2457 | Gladys | 2.8-15 |
| 2344 | Eloise | 2.6-18 | 2463 | Gladys | 2.8-16 |
| 2349 | Faye | 2.7-10 | 2464 | Gladys | 2.8-16 |
| 2349 | Gladys | 2.8-8 | 2478 | Gladys | 2.8-17 |
| 2350 | Eloise | 2.6-19 | 2486 | Gladys | 2.8-17 |
| 2358 | Eloise | 2.6-19 | 2488 | Nanette | 3.17-6 |
| 2358 | Faye | 2.7-10 | 2492 | Gladys | 2.8-18 |
| 2372 | Eloise | 2.6-20 | 2502 | Nanette | 3.17-7 |
| 2372 | Faye | 2.7-11 | 2519 | Cora | 4.17-8 |
| 2378 | Faye | 2.7-12 | 2538 | Cora | 4.17-9 |
| 2392 | Faye | 2.7-13 | 2562 | Elsie | 4.19-4 |
| 2392 | Gladys | 2.8-11 | 2582 | Elsie | 4.19-5 |
| 2406 | Faye | 2.7-14 | 2590 | Elsie | 4.19-6 |
| 2406 | Gladys | 2.8-12 | 2605 | Elsie | 4.19-7 |
| 2407 | Faye | 2.7-14 | 2619 | Elsie | 4.19-8 |
| 2407 | Gladys | 2.8-12 | 2690 | TD18 | 4.20-5 |
| 2415 | Faye | 2.7-14 | 2706 | Seventeen | 3.18-4 |
| 2421 | Faye | 2.7-15 | 2739 | Flossie | 4.21-3 |
| 2421 | Gladys | 2.8-13 | 2763 | Olivia | 3.19-2 |
| 2429 | Faye | 2.7-15 | 2777 | Olivia | 3.19-3 |
| 2429 | Gladys | 2.8-13 | 2785 | Olivia | 3.19-3 |
| 2429 | Nanette | 3.17-2 | 2832 | Grace | 4.22-5 |
| 2431 | Monica | 3.16-2 | 2904 | Grace | 4.22-10 |
| 2431 | Nanette | 3.17-2 | 3022 | Ida | 4.24-7 |
| | | | 3150 | June | 4.25-6 |

2.0 ATLANTIC, CARIBBEAN AND GULF OF MEXICO AREAS

2.1 General

This section contains: preliminary meteorological reports on the storms; plots of preliminary best tracks (where available); preliminary track data; pressure profiles (where available); and the GEOS-3 orbit plots.

Names of the storms and their periods of activity are given below.

- . Tropical Storm "Amy" (6/27/75-7/4/75)
- . Hurricane "Blanche" (7/24/75-7/28/75)
- . Hurricane "Caroline" (8/24/75-9/1/75)
- . Hurricane "Doris" (8/28/75-9/4/75)
- . Hurricane "Eloise" (9/13/75-9/24/75)
- . Hurricane "Faye" (9/18/75-9/29/75)
- . Hurricane "Gladys" (9/22/75-10/3/75)

Storms tracked in the Atlantic area occurred between June 27, 1975 and October 3, 1975.

The meteorological reports contained in this section were available only for the Atlantic storms. These reports contain useful meteorological information on the history of the storm and its movements, atmospheric conditions, wind velocity, tides, forecasts and warnings, and damage estimates.

TROPICAL STORM AMY

June 27 - July 4, 1975

Meteorological History

During most of its life Amy had many of the characteristics of a subtropical storm. The region of maximum winds was well removed from the center and mid-tropospheric temperatures were not as warm as might be expected in a tropical storm. The minimum pressure was 981 mb, but the maximum sustained winds of 70 mph were less than might be expected with this pressure. However, when the low attained winds of gale force, data indicated that it was more tropical than subtropical; therefore it was named Amy. Because of the close proximity of the coast the name was retained throughout to avoid confusion in public releases.

Meteorological Data

During the period June 24-26th, a weak surface trough of low pressure persisted over Florida and the adjacent Atlantic waters. A weak circulation formed off the Florida east coast just north of the Bahamas by the evening of June 26th. The tropical depression moved northward about 10 mph during June 27th, with lowest pressure around 1012 mb and highest winds of 25 to 30 mph. The development of a well organized warm anticyclone in the upper atmosphere during the early stages of this system contributed to its rather rapid strengthening into a tropical storm on the 28th and 29th. The storm skirted the North Carolina coast and the area of maximum winds and heaviest rainfall remained over the open waters of the Atlantic.

From June 29th to July 3rd, Amy moved on a meandering, east-northeast course with an average forward speed of less than 10 mph. On both July 1st and 2nd, minor troughs in the westerlies caused Amy to slow and turn to a more northerly course with brief threats to the Canadian Maritime Provinces. On July 3rd, a major trough developing over southeastern Canada produced a rapid northeasterly acceleration with the center of Amy passing some 150 miles southeast of Cape Race, Newfoundland on July 4th. The high winds and rains associated with the storm did not affect Newfoundland. The system gradually lost all its tropical characteristics over the cold waters of the far north Atlantic after passing Newfoundland.

Damage Estimates

Damage produced by Tropical Storm Amy was light and confined to erosion along the outer banks of North Carolina. Tides of 2 to 4 feet above normal caused by prolonged northeasterly winds, combined with large swells associated with the circulation of Amy, damaged many of the beaches. Some state highways near the beach were temporarily under water. Rainfall of 2 to 4 inches occurred along the immediate coast of North Carolina but was much lighter inland.

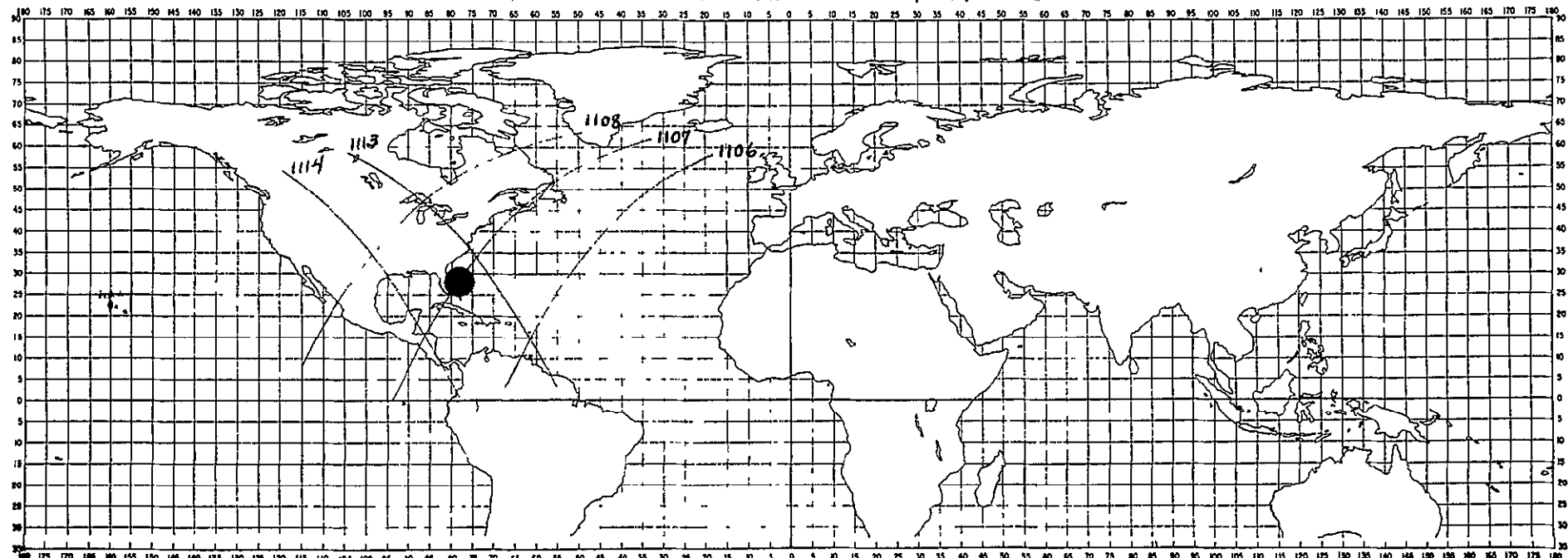
STORM: TROPICAL STORM AMY

DATE: JUNE 27 - JULY 4, 1975

| Date | Time GMT | Position | | Pressure* (MB) | Wind (KTS) | Stage |
|------|----------|----------|-----------|----------------|------------|---------------------|
| | | Latitude | Longitude | | | |
| 6/27 | 0000Z | 27.5N | 79.0W | 1013 | 25 | Tropical Depression |
| | 0600Z | 28.5 | 79.0 | 1013 | 25 | |
| | 1200Z | 29.5 | 79.0 | 1013 | 25 | |
| | 1800Z | 30.5 | 79.0 | 1013 | 25 | |
| 6/28 | 0000Z | 31.5N | 78.8W | 1012 | 25 | Tropical Depression |
| | 0600Z | 32.4 | 78.7 | 1012 | 25 | |
| | 1200Z | 33.3 | 78.0 | 1011 | 25 | |
| | 1800Z | 34.0 | 77.0 | 1006 | 30 | |
| 6/29 | 0000Z | 34.4N | 75.8W | 1004 | 35 | Tropical Storm |
| | 0600Z | 34.0 | 74.8 | 1002 | 40 | |
| | 1200Z | 33.8 | 73.8 | 1000 | 45 | |
| | 1800Z | 33.8 | 72.8 | 998 | 50 | |
| 6/30 | 0000Z | 34.3N | 71.6W | 998 | -- | Tropical Storm |
| | 0600Z | 35.6 | 70.8 | 998 | 55 | |
| | 1200Z | 35.9 | 70.5 | 987 | 60 | |
| | 1800Z | 36.2 | 70.2 | 987 | 60 | |
| 7/1 | 0000Z | 36.2N | 69.8W | 984 | 60 | Tropical Storm |
| | 0600Z | 36.2 | 69.4 | 984 | 60 | |
| | 1200Z | 36.2 | 68.3 | 984 | 60 | |
| | 1800Z | 36.7 | 67.2 | 984 | 60 | |
| 7/2 | 0000Z | 37.4N | 66.7W | 984 | 60 | Tropical Storm |
| | 0600Z | 37.3 | 65.9 | 984 | 60 | |
| | 1200Z | 37.3 | 65.1 | 981 | 60 | |
| | 1800Z | 37.3 | 64.1 | 986 | 60 | |
| 7/3 | 0000Z | 37.7N | 62.8W | 986 | 55 | Tropical Storm |
| | 0600Z | 38.2 | 61.2 | 986 | 55 | |
| | 1200Z | 39.3 | 59.6 | 986 | 55 | |
| | 1800Z | 40.5 | 58.0 | 986 | 50 | |
| 7/4 | 0000Z | 42.5N | 54.8W | 986 | 50 | Tropical Storm |
| | 0600Z | 44.5 | 51.6 | 986 | 50 | |
| | 1200Z | 47.0 | 48.0 | 995 | 45 | |

* Minimum Sea Level Pressure

TROPICAL STORM "AMY" - 6/27/75 (0000 Z - 2400 Z)

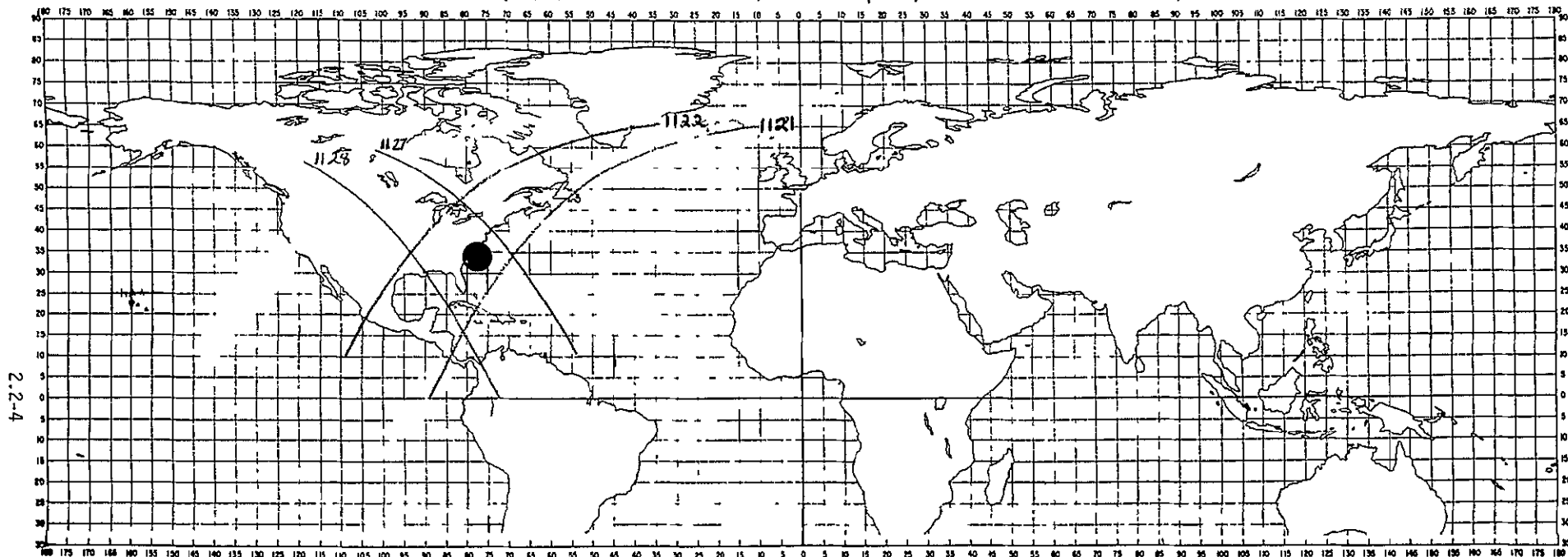


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 27.5N | 79.0W |
| 0600Z | 28.5 | 79.0 |
| 1200Z | 29.5 | 79.0 |
| 1800Z | 30.5 | 79.0 |
| 2400Z | 31.5 | 78.8 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 1106 | + 124.00 | 03 33 38 | 0418Z | No | | | |
| 1107 | + 98.68 | 05 15 25 | 0558Z | 054925 | 060330 | 802 | |
| 1108 | + 73.25 | 06 57 12 | 0732Z | No | | | |
| 1113 | - 53.26 | 15 26 07 | 1536Z | 155012 | 155222 | 803 | |
| 1114 | - 78.59 | 17 07 54 | 1714Z | No | | | |

TROPICAL STORM "AMY" - 6/28/75 (0000Z - 2400Z)

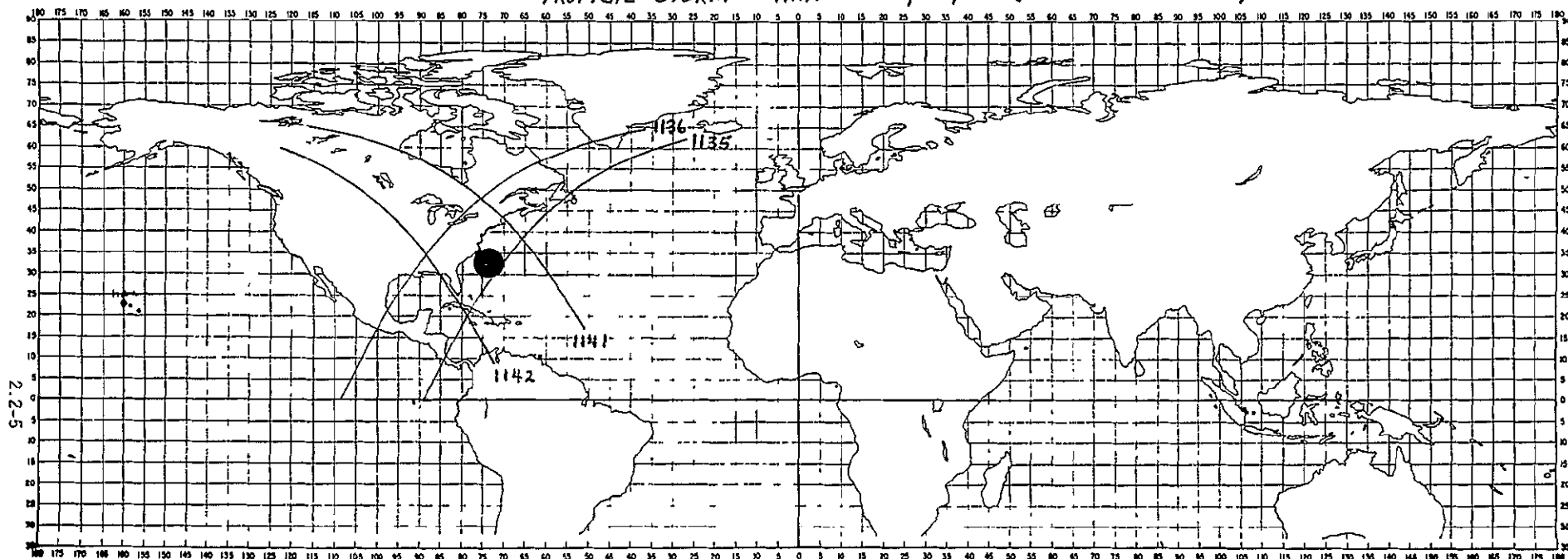


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 31.5N | 78.8W |
| 0600Z | 32.4 | 78.7 |
| 1200Z | 33.3 | 78.0 |
| 1800Z | 34.0 | 77.0 |
| 2400Z | 34.4 | 75.8 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 1121 | +104.15 | 05 00 24 | 0542Z | 053840 | 054646 | 802 | — |
| 1122 | + 78.83 | 06 42 11 | 0720Z | No | | | |
| 1127 | - 47.73 | 15 11 06 | 1523Z | No | | | |
| 1128 | - 73 11 | 16 52 54 | 1701Z | No | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "AMY" - 6/29/75 (0000Z - 2400Z)

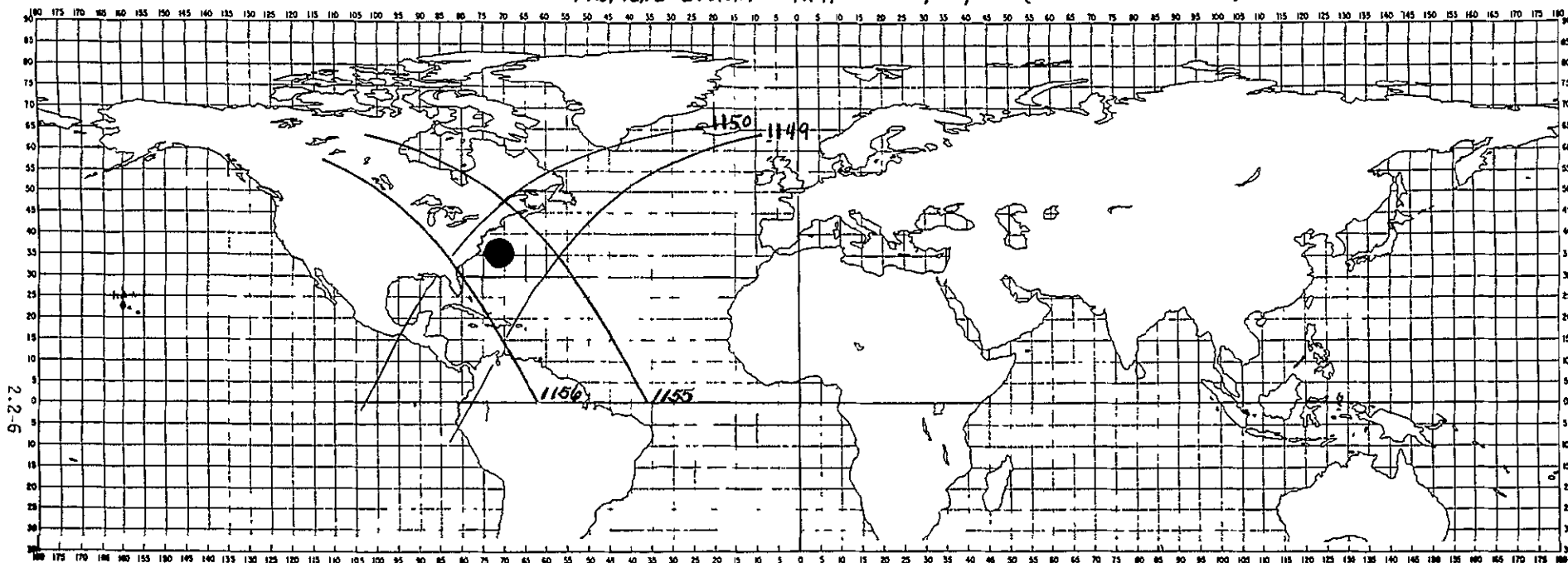


LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 34.4N | 75.8 W |
| 0600Z | 34.0 | 74.8 |
| 1200Z | 33.8 | 73.8 |
| 1800Z | 33.8 | 72.8 |
| 2400Z | 34.3 | 71.6 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 1135 | + 103.63 | 04 45 23 | 0526 Z | No | | | |
| 1136 | + 84.31 | 06 37 10 | 0705 Z | No | | | |
| 1141 | - 42.31 | 14 56 06 | 1508 Z | 150428 | 150941 | 708 | 100 |
| 1142 | - 67.64 | 16 37 53 | 1645 Z | 164220 | 164737 | 803 | -- |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "AMY" - 6/30/75 (0000Z - 2400Z)

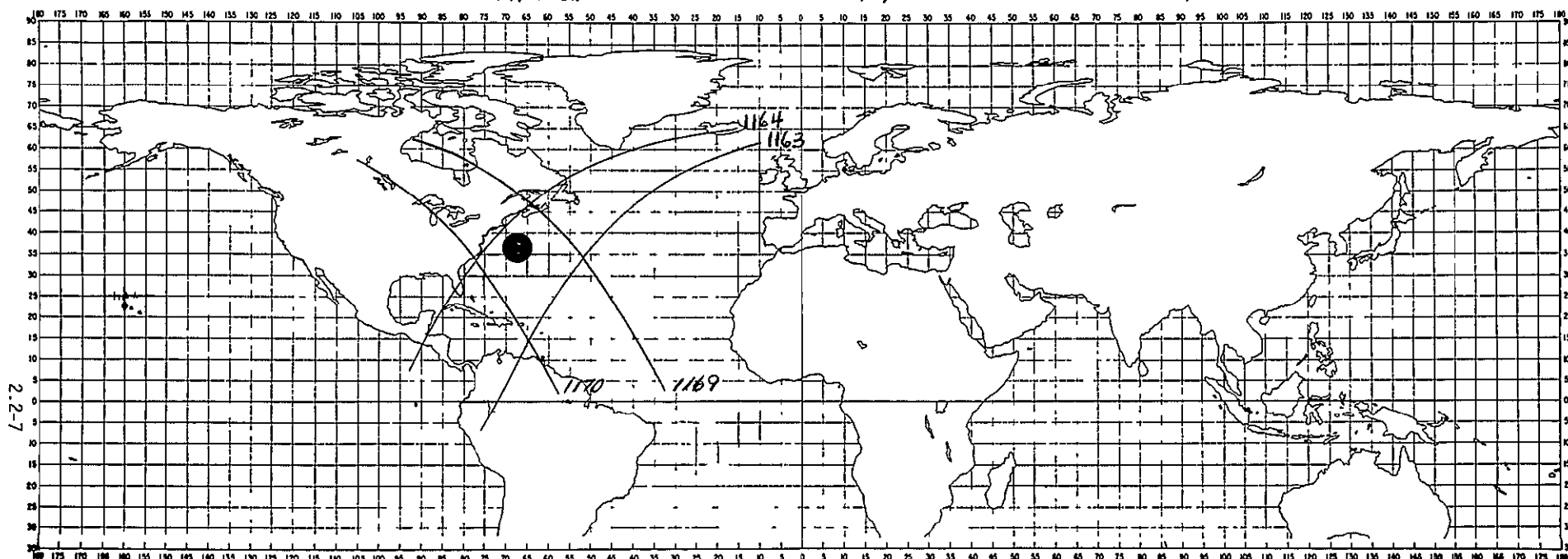


LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 34.3N | 71.6W |
| 0600Z | 35.6 | 70.8 |
| 1200Z | 35.9 | 70.5 |
| 1800Z | 36.2 | 70.2 |
| 2400Z | 36.2 | 69.8 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unit# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 1149 | +115.10 | 04 30 23 | 0513Z | No | | | |
| 1150 | +89.75 | 06 12 10 | 0650Z | 065012 | 070014 | 803 | |
| 1155 | -35.84 | 14 41 05 | 1455Z | 145234 | 145701 | 802 | |
| 1156 | -62.16 | 16 22 52 | 1632Z | 162453 | 163751 | 803 | |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "AMY" - 7/1/75 (0000Z - 2400Z)

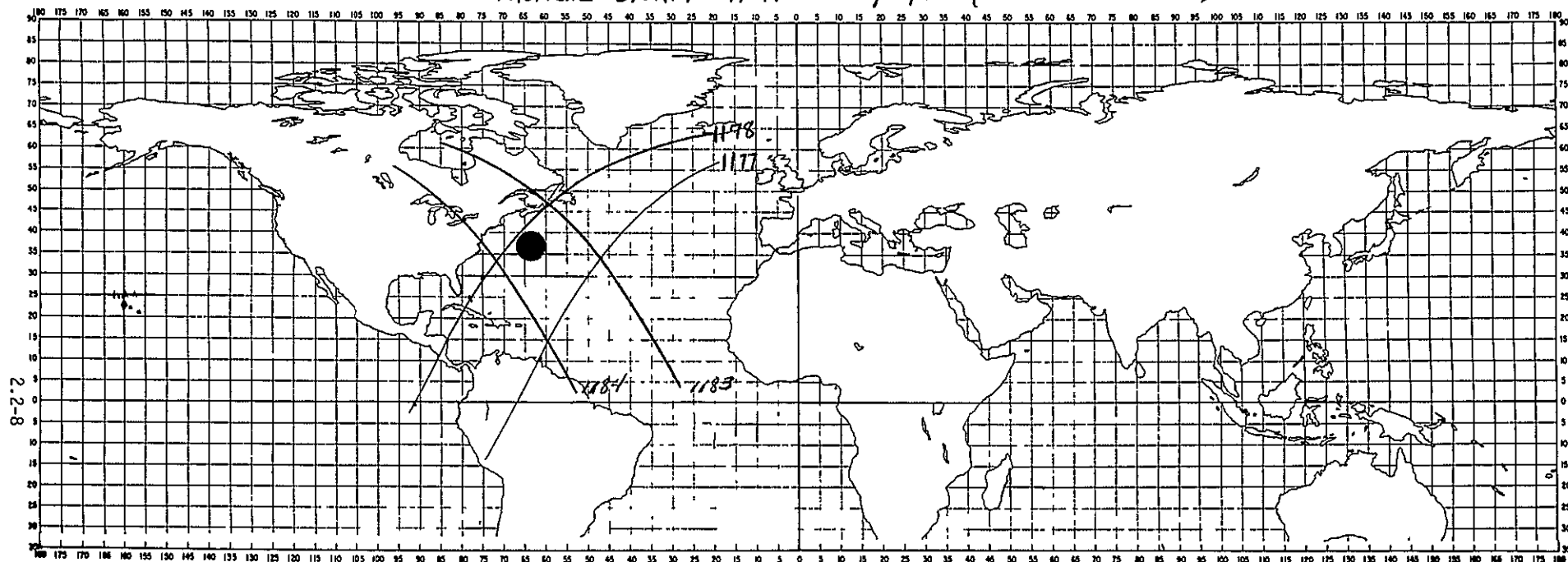


LOCATION ' TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 36.2N | 69.8W |
| 0600Z | 36.2 | 69.4 |
| 1200Z | 36.2 | 68.3 |
| 1800Z | 36.7 | 67.2 |
| 2400Z | 37.4 | 66.7 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 1163 | + 120.58 | 04 15 22 | 0458Z | No | | | |
| 1164 | + 95.25 | 05 57 09 | 0635Z | 063510 | 064452 | 802 | — |
| 1169 | - 31.36 | 14 26 05 | 1440Z | No | | | |
| 1170 | - 56.69 | 16 07 52 | 1617Z | 161629 | 161858 | 802 | |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "AMY" - 7/2/75 (0000Z - 2400Z)



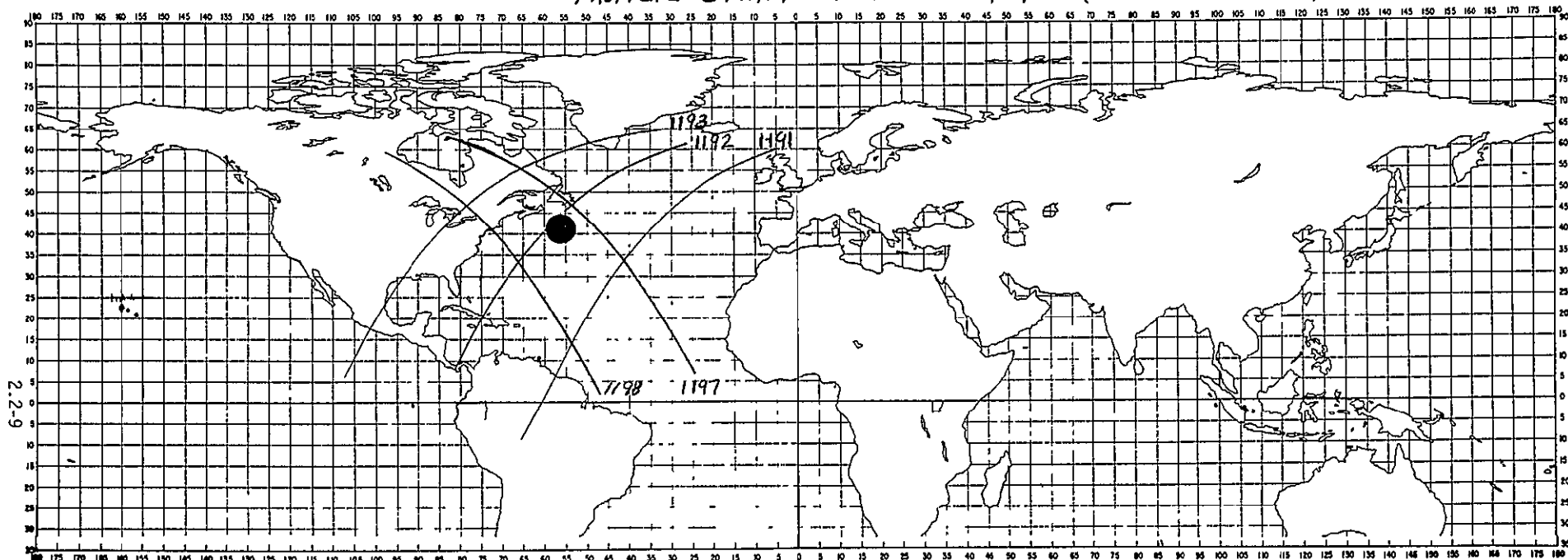
LOCATION

TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 37.4 N | 66.7 W |
| 0600Z | 37.3 | 65.9 |
| 1200Z | 37.3 | 65.1 |
| 1800Z | 37.3 | 64.1 |
| 2400Z | 37.7 | 62.8 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | On | Off | Mode | Ung# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|------|
| 1177 | +126.05 | 04 00 21 | 0443 Z | No | | | |
| 1178 | +100.73 | 05 42 09 | 0625 Z | 062027 | 062905 | 802 | |
| 1183 | - 25.89 | 14 11 04 | 1425 Z | No | | | |
| 1184 | - 51.21 | 15 52 51 | 1602 Z | 160109 | 160452 | 708 | 117 |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "AMY" - 7/3/75 (0000Z - 2400Z)



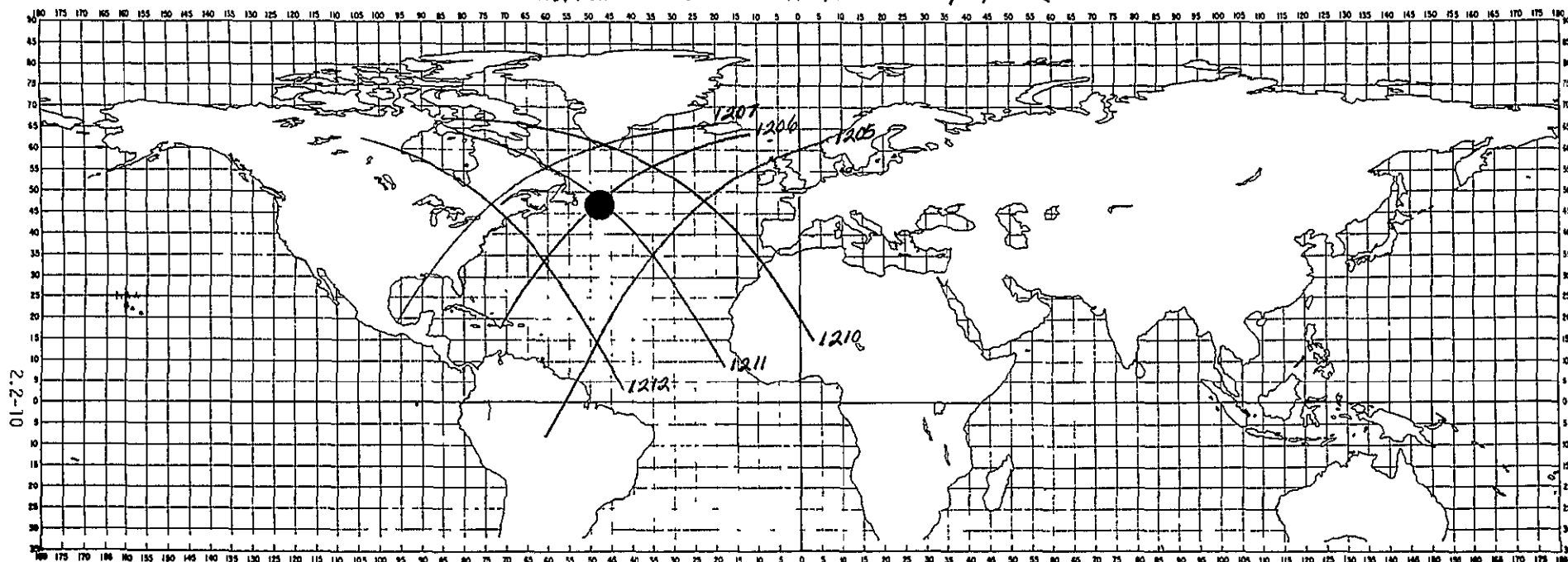
LOCATION

TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 37.7N | 62.8W |
| 0600Z | 38.2 | 61.2 |
| 1200Z | 39.3 | 59.6 |
| 1800Z | 40.5 | 58.0 |
| 2400Z | 42.5 | 54.8 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | On | Off | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 1191 | +131.52 | 03 45 21 | 0426Z | No | | | |
| 1192 | +106.20 | 05 27 08 | 0605Z | No | | | |
| 1193 | +80.88 | 07 08 55 | 0741Z | No | | | |
| 1197 | -20.42 | 13 56 04 | 1411Z | No | | | |
| 1198 | -45.75 | 15 37 51 | 1548Z | 154723 | 155059 | 802 | 131 |

TROPICAL STORM "AMY" - 7/4/75 (0000Z - 1200Z)



LOCATION EXTRA-TROPICAL

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 42.5N | 54.8W |
| 0600Z | 44.5N | 51.6 |
| 1200Z | 47.0N | 48.0 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Usage |
|-------|------------------|--------------------------|-----------------|----|-----|------|-------|
| 1205 | +137.00 | 03 30 20 | 0410Z | No | | | |
| 1206 | +111.68 | 05 12 07 | 0548Z | No | | | |
| 1207 | +86.35 | 06 53 55 | 0725Z | No | | | |
| 1210 | +10.38 | 11 59 16 | 1218Z | No | | | |
| 1211 | -14.94 | 13 41 03 | 1356Z | No | | | |
| 1212 | -40.26 | 15 22 50 | 1534Z | No | | | |

HURRICANE BLANCHE

July 24-28, 1975

Meteorological History/Data/Warnings

Blanche, the season's first hurricane, had its beginnings as a tropical wave which moved off the coast of Africa on July 14. As the wave entered the Caribbean region, it appeared to elongate and then divide into two systems. One part tracked northwestward as a cloud mass from which a depression formed about 500 miles north of the eastern tip of the Dominican Republic on July 24. The southern part continued westward across the Caribbean Sea and the Yucatan Peninsula, and formed a tropical depression in the southwestern Gulf of Mexico on July 25.

The first depression gradually turned toward the north and north-northeast during the next two days. In this interval, reconnaissance and satellite data indicated that it hovered on the brink of becoming a tropical storm. The threshold was probably crossed during the early hours of July 26, when a reconnaissance aircraft found a central pressure of 1004 mb. This point marked the beginning of Tropical Storm Blanche on the official track. Meanwhile, the second depression intensified as it crossed the southwestern Gulf of Mexico, and was on the verge of becoming a tropical storm when it passed over Tampico, Mexico, later the same day.

As Blanche turned toward the northeast, its potential for further intensification was dependent upon the impact of an approaching cold front moving off the North Carolina coast. However, the front rapidly weakened before cooler air could penetrate the storm's inner core, and Blanche steadily deepened, partly in response to the baroclinic effect of an upper trough to the west. Blanche reached hurricane strength as the central pressure fell to 987 mb during the early hours of July 27. At this time the hurricane was at the same location crossed by Tropical Storm Amy two weeks earlier.

Whereas Amy followed a meandering track toward the northeast, Blanche moved north-northeastward toward Nova Scotia. As a deepening upper trough moved through eastern Canada, Blanche accelerated to a forward speed of about 30 mph at the time of landfall at Cape Sable, Nova Scotia about daybreak on July 28.

During the twelve hours prior to landfall the hurricane reached its maximum intensity. Highest sustained winds were about 85 mph and the lowest pressure was 980 mb. In view of the strengthening and acceleration, gale warnings were issued for the eastern portion of the Maine coast, from Rockland to Eastport at midnight July 27. Meanwhile the Canadian Weather Service issued a hurricane warning for Nova Scotia.

The lowest pressures at land stations were 987.0 mb at Western Head, near Cape Sable, at 1330 GMT following a three-hour pressure fall of 16 mb; and 988.7 mb at near-by Shelburne at 1200 GMT after a three-hour fall of 18 mb. Some maximum wind measurements on July 28 were: Halifax, sustained winds of 52 mph with gusts to 80 mph at 1422 GMT; Western Head, sustained winds of 54 mph at 1200 GMT; and Gridstone Island, sustained winds of 70 mph at 1800 GMT.

Damage Estimates

There was no loss of life due to Blanche. Considerable minor damage occurred, mostly in eastern Nova Scotia, consisting mainly of small boats washed ashore, and trees blown down. Rainfall was not excessive. The greatest accumulation was 3.1 inches in Chatham, New Brunswick. The rains proved beneficial, bringing an end to a prolonged dry period over the region.

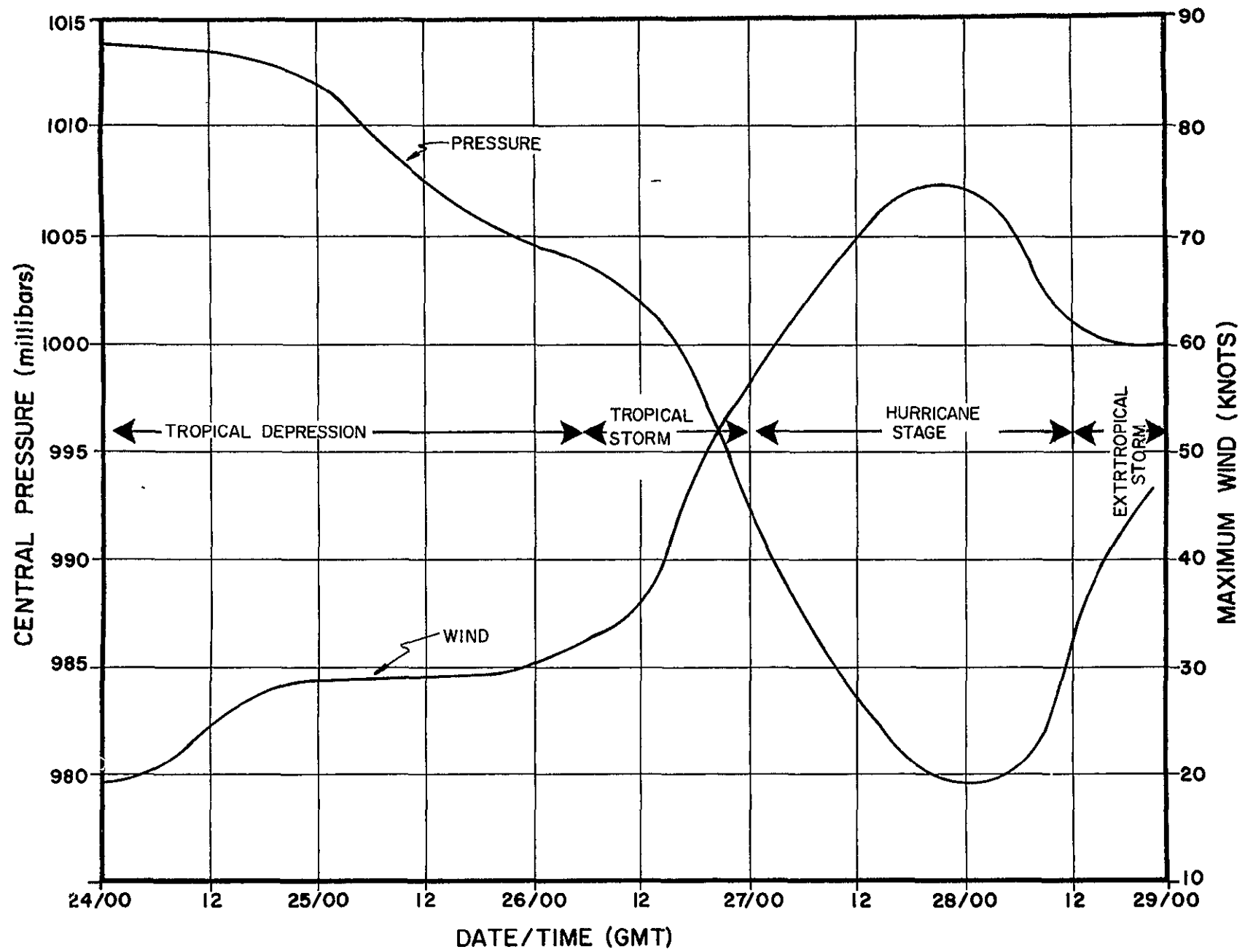


FIGURE 2 HURRICANE BLANCHE PRESSURE-WIND VELOCITY PROFILE (July 24-28, 1975)

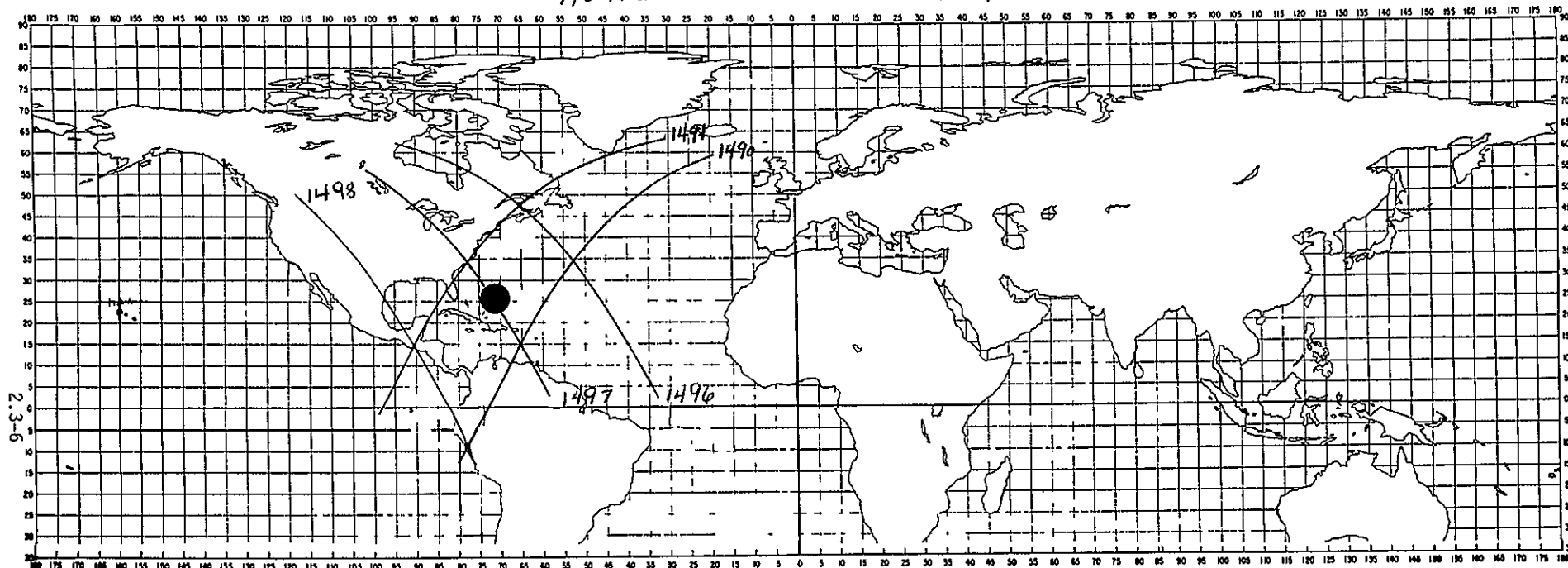
STORM: HURRICANE BLANCHE

DATE: JULY 24 - JULY 28, 1975

| Date | Time GMT | Position | | Pressure* (MB) | Wind (KTS) | Stage |
|------|----------|----------|-----------|----------------|------------|---------------------------------------|
| | | Latitude | Longitude | | | |
| 7/24 | 0000Z | 26.0N | 68.4W | 1014 | 20 | Tropical Depression |
| | 0600Z | 26.0 | 69.5 | 1014 | 20 | |
| | 1200Z | 26.1 | 70.5 | 1014 | 25 | |
| | 1800Z | 26.5 | 71.5 | 1013 | 30 | |
| 7/25 | 0000Z | 27.2N | 72.5W | 1012 | 30 | Tropical Depression |
| | 0600Z | 28.0 | 73.6 | 1010 | 30 | |
| | 1200Z | 28.9 | 74.3 | 1007 | 30 | |
| | 1800Z | 29.9 | 74.9 | 1006 | 30 | |
| 7/26 | 0000Z | 31.0N | 75.0W | 1005 | 30 | Tropical Depression Tropical Storm |
| | 0600Z | 32.2 | 74.6 | 1004 | 35 | |
| | 1200Z | 33.4 | 73.5 | 1003 | 35 | |
| | 1800Z | 34.2 | 72.2 | 998 | 50 | |
| 7/27 | 0000Z | 35.0N | 71.0W | 992 | 60 | Tropical Storm Hurricane |
| | 0600Z | 35.9 | 70.0 | 987 | 65 | |
| | 1200Z | 36.9 | 69.0 | 984 | 70 | |
| | 1800Z | 37.9 | 68.0 | 981 | 75 | |
| 7/28 | 0000Z | 39.3N | 67.2W | 980 | 75 | Hurricane Extratropical Storm |
| | 0600Z | 41.2 | 66.4 | 980 | 70 | |
| | 1200Z | 44.0 | 65.2 | 988 | 60 | |
| | 1800Z | 47.2 | 62.4 | 992 | 60 | |

*Lowest Pressure

HURRICANE "BLANCHE" - 7/24/75 (0000Z - 2400Z)

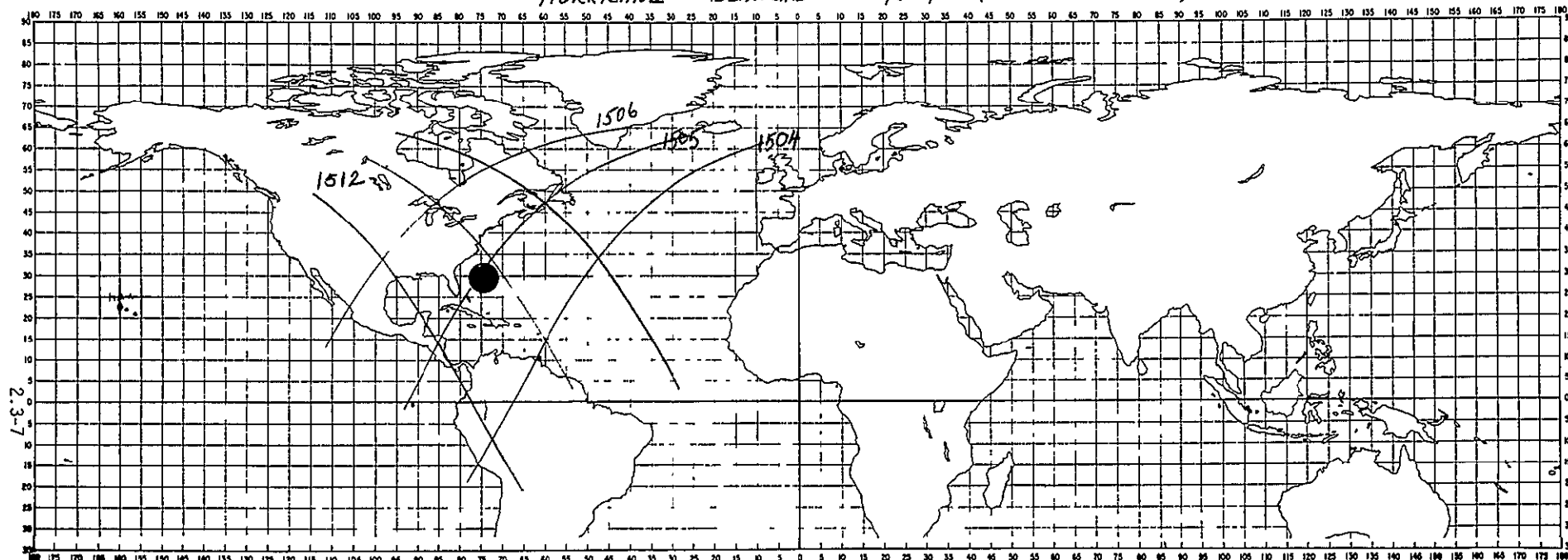


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 26.0N | 68.4W |
| 0600Z | 26.0 | 69.5 |
| 1200Z | 26.1 | 70.5 |
| 1800Z | 26.5 | 71.5 |
| 2400Z | 27.2 | 72.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | DN | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 1490 | + 119.85 | 06 59 04 | 0744Z | No | | | |
| 1491 | + 94.53 | 08 40 51 | 0922Z | 091524 | 092616 | 802 | 390 |
| 1496 | - 32.08 | 17 09 46 | 1722Z | No | | | |
| 1497 | - 57.41 | 19 51 33 | 1959Z | No | | | |
| 1498 | - 82.73 | 20 33 21 | 2038Z | No | | | |

HURRICANE "BLANCHE" - 7/25/75 (0000Z - 2400Z)

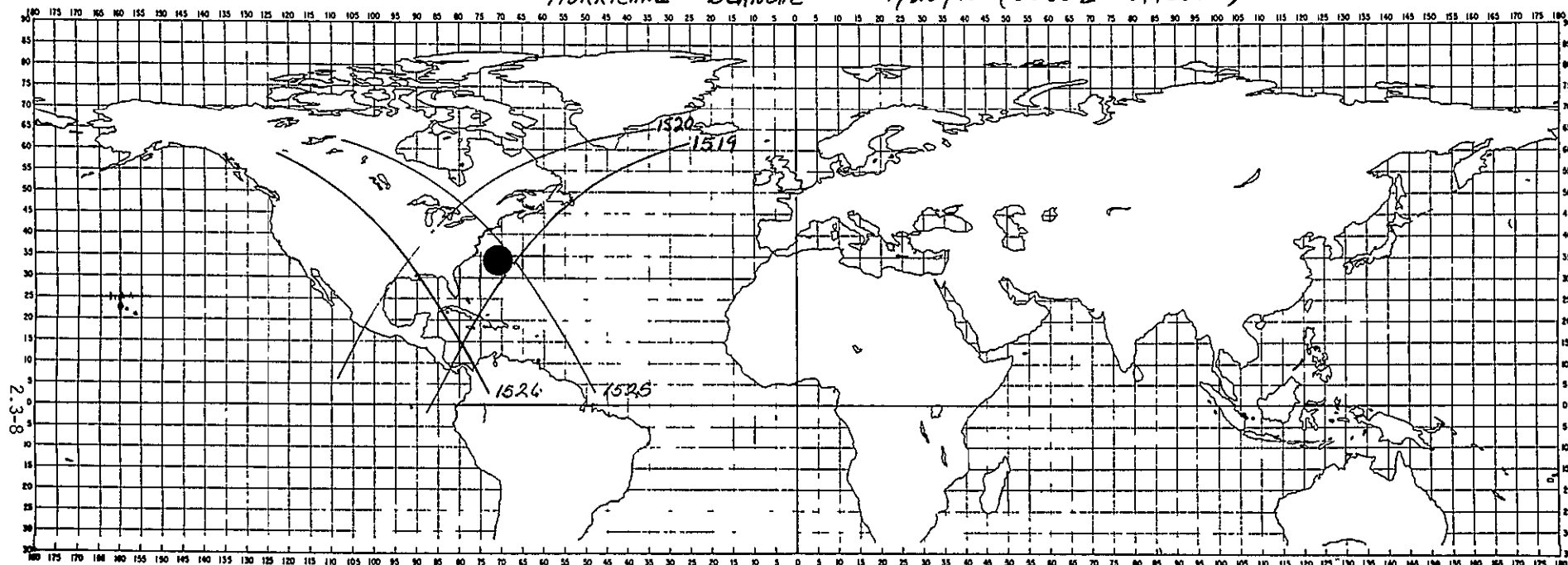


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 27.2N | 72.5W |
| 0600Z | 28.0 | 73.6 |
| 1200Z | 28.9 | 74.3 |
| 1800Z | 29.9 | 74.9 |
| 2400Z | 31.0 | 75.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | DN | OFF | Mode | Uniq ² |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------------------|
| 1504 | +125.33 | 06 44 03 | 0729Z | No | | | |
| 1505 | +100.01 | 08 25 50 | 0907Z | 090130 | 091156 | 802 | 402 |
| 1506 | +74.68 | 10 07 37 | 1043Z | No | | | |
| 1510 | -26.61 | 16 54 46 | 1610Z | No | | | |
| 1511 | -51.94 | 18 36 33 | 1846Z | 184447 | 184840 | 802 | 405 |
| 1512 | -77.26 | 20 18 20 | 2024Z | No | | | |

HURRICANE "BLANCHE" - 7/26/75 (0000Z - 2400Z)

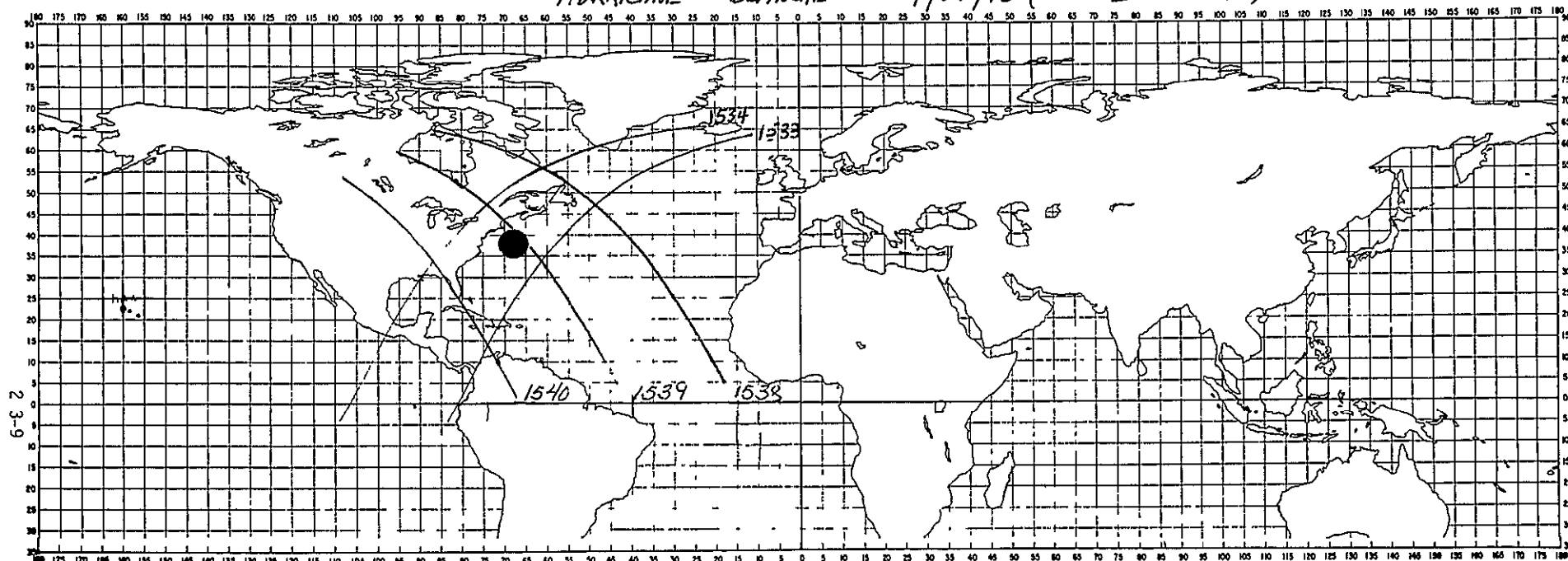


LOCATION TROPICAL STORM (AT 0600)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 31.0 N | 75.0 W |
| 0600Z | 32.2 | 74.6 |
| 1200Z | 33.4 | 73.5 |
| 1800Z | 34.2 | 72.2 |
| 2400Z | 35.0 | 71.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Usage |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 1519 | + 105.48 | 08 10 50 | 0852Z | 085546 | 085656 | 802 | 409 |
| 1520 | + 80.18 | 09 52 37 | 1029Z | No | | | |
| 1525 | - 46.46 | 18 21 32 | 1842Z | No | | | |
| 1526 | - 71.78 | 20 03 18 | 2011Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "BLANCHE" - 7/27/75 (0000Z - 2400Z)

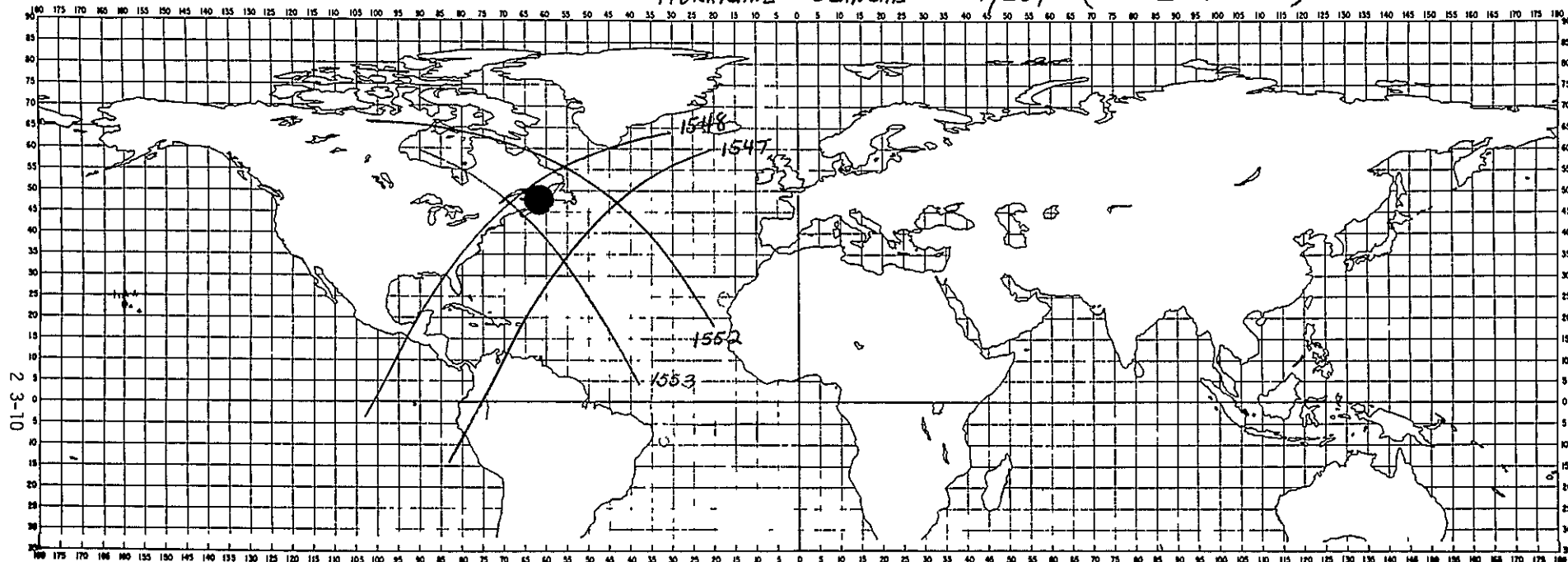


LOCATION HURRICANE (AT 0600)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 35.0N | 71.0W |
| 0600Z | 35.9 | 70.0 |
| 1200Z | 36.9 | 69.0 |
| 1800Z | 37.9 | 68.0 |
| 2400Z | 39.3 | 67.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Made | Uniq# |
|-------|------------------|--------------------------|-----------------|----|-----|------|-------|
| 1533 | +110.95 | 07 55 49 | 0836Z | No | | | |
| 1534 | +85.63 | 09 37 36 | 1014Z | No | | | |
| 1538 | -15.67 | 16 24 45 | 1642Z | No | | | |
| 1539 | -40.99 | 18 06 32 | 1819Z | No | | | |
| 1540 | -66.31 | 19 48 19 | 1957Z | No | | | |

HURRICANE "BLANCHE" - 7/28/75 (0000Z - 1800Z)



LOCATION HURRICANE/EXTRA-TROPICAL (AT 1200Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 39.3 N | 67.2 W |
| 0600Z | 41.2 | 66.4 |
| 1200Z | 44.0 | 65.2 |
| 1800Z | 47.2 | 63.4 |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unq# |
|-------|------------------|--------------------------|-----------------|----|-----|------|------|
| 1547 | + 116.43 | 07 40 49 | 0820Z | No | | | |
| 1548 | + 91.11 | 09 22 35 | 0958Z | No | | | |
| 1552 | - 10.19 | 16 09 44 | 1628Z | No | | | |
| 1553 | - 35.51 | 17 51 31 | 1805Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE CAROLINE

August 24 - September 1, 1975

Meteorological History/Data/Warnings

Caroline originated as a tropical disturbance which crossed the west coast of Africa on August 15, 1975. The disturbance then moved towards the west-southwest at 15 kts or slightly faster along the Intertropical Convergence (ITC) Zone. On August 18th, the system turned toward the northwest, breaking away from the ITC zone and gradually slowed its forward speed. By the time it reached a point about 600 miles northeast of Puerto Rico, on the 22nd, the speed of movement was 10 to 12 kts.

A second marked change in direction occurred on the 22nd and 23rd, when the disturbance began heading towards the southwest. By midday on the 24th, satellite pictures showed that a closed circulation had been established at the surface with maximum winds of 25 knots and a central pressure of 1011 mb. At this time, the system was identified as Tropical Depression No. 5 of the 1975 Atlantic hurricane season.

The depression proceeded through the extreme southeastern Bahamas and across the mountainous terrain of eastern Cuba where it briefly lost tropical depression status.

By the 27th, a closed surface circulation was re-established and the depression had passed south of western Cuba. It was now moving in a direction just north of west and early on the 28th had passed through the Yucatan channel and moved into the southwest Gulf of Mexico.

The depression was located about 150 miles northwest of Merida and moving west-northwestward at about 8 kts by the afternoon of the 28th. Satellite-observed cloud motions indicated that an upper level anticyclone had become established over the depression; this resulted in a more favorable situation for intensification. Caroline was named a tropical storm early on the 29th as surface winds reached 35 kts and the central pressure dropped to near 1000 mb. This occurred with the storm a little less than 400 miles east-southeast of Brownsville, Texas. At this time, because of the slowing of Caroline's forward speed and because of some indications of the possibility of a more northerly course, public statements were issued to interests along the south Texas coast as well as for northeast Mexico. These statements advised persons planning Labor Day holiday weekends along the seashore to keep in touch with future releases.

However, the storm proceeded to move just north of west and slowed to about 5 kts while continuing to intensify, and was upgraded to hurricane status on the 29th. A hurricane watch was announced for the Brownsville area on Saturday morning, August 30th, as well as warning the northeast coast of Mexico, that the path of Carolina would project a landfall midway between Tampico and Brownsville.

Landfall actually occurred on Sunday morning, August 31, about 100 miles south of Brownsville on the Mexican coast. Caroline's central pressure dropped four millibars per hour for about a six-hour period just prior to landfall. Maximum surface winds measured by Air Force reconnaissance aircraft were 100 kts and minimum measured sea level pressure was 963 millibars, both of these measurements within several hours prior to landfall.

Damage Estimates

The maximum wind reported by a land station was 42 kts at Brownsville on August 30, 1642 GMT. Some minor flooding occurred in southeast Texas from heavy rain. No official reports have been received from Mexico. An air tour of the Mexican coast, by Mr. Dreumont of the Brownsville Weather Office, from Brownsville to the point of landfall approximately 100 miles south, indicated that some rather significant flooding occurred with several small communities destroyed, presumably from the storm surge effect.

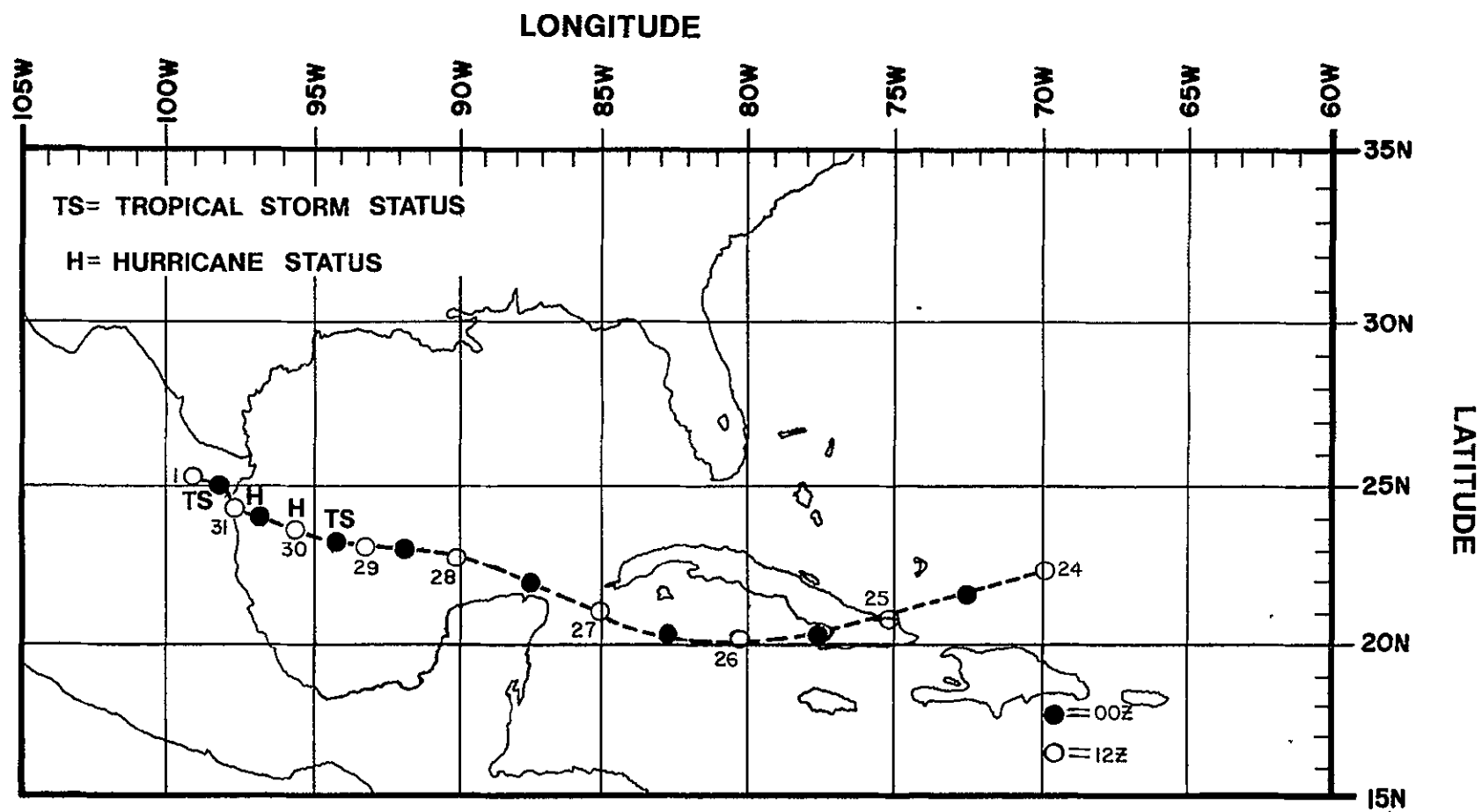


FIGURE 3. PRELIMINARY BEST TRACK FOR HURRICANE CAROLINE

STORM: HURRICANE CAROLINE

DATE: AUG 24 - SEPT 1, 1975

| Date | Time GMT | Position | | Pressure* (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|-------------------|---------------|---------------------------------------|
| | | Latitude | Longitude | | | |
| 8/24 | 1200Z | 22.4N | 69.8W | 1011 | 25 | Tropical Depression |
| | 1800Z | 21.9 | 71.1 | 1011 | 25 | |
| 8/25 | 0000Z | 21.6N | 72.5W | 1010 | 25 | Tropical Depression |
| | 0600Z | 21.2 | 73.8 | 1010 | 25 | |
| | 1200Z | 20.9 | 75.1 | 1011 | 25 | |
| | 1800Z | 20.6 | 76.4 | 1011 | 25 | |
| 8/26 | 0000Z | 20.4N | 77.7 W | 1011 | 25 | Tropical Depression |
| | 0600Z | 20.3 | 79.0 | 1011 | 25 | |
| | 1200Z | 20.2 | 80.3 | 1012 | 25 | |
| | 1800Z | 20.2 | 81.6 | 1012 | 25 | |
| 8/27 | 0000Z | 20.4N | 82.8 W | 1013 | 25 | Tropical Depression |
| | 0600Z | 20.8 | 84.0 | 1013 | 25 | |
| | 1200Z | 21.1 | 85.1 | 1014 | 25 | |
| | 1800Z | 21.5 | 86.3 | 1014 | 25 | |
| 8/28 | 0000Z | 22.0N | 87.5 W | 1014 | 25 | Tropical Depression |
| | 0600Z | 22.4 | 88.8 | 1014 | 25 | |
| | 1200Z | 22.8 | 90.1 | 1013 | 25 | |
| | 1800Z | 22.9 | 91.0 | 1010 | 25 | |
| 8/29 | 0000Z | 23.0N | 91.9W | 1007 | 30 | Tropical Depression Tropical Storm |
| | 0600Z | 23.1 | 92.6 | 1003 | 35 | |
| | 1200Z | 23.2 | 93.2 | 999 | 40 | |
| | 1800Z | 23.2 | 93.6 | 994 | 50 | |
| 8/30 | 0000Z | 23.3N | 94.2W | 990 | 65 | Hurricane |
| | 0600Z | 23.5 | 94.9 | 990 | 65 | |
| | 1200Z | 23.7 | 95.6 | 989 | 65 | |
| | 1800Z | 23.8 | 96.3 | 987 | 70 | |
| 8/31 | 0000Z | 24.0N | 97.0W | 973 | 100 | Hurricane |
| | 0600Z | 24.1 | 97.5 | 963 | 100 | |
| | 1200Z | 24.3 | 97.8 | 963 | 90 | Landfall Tropical Storm |
| | 1800Z | 24.8 | 98.0 | 993 | 55 | |

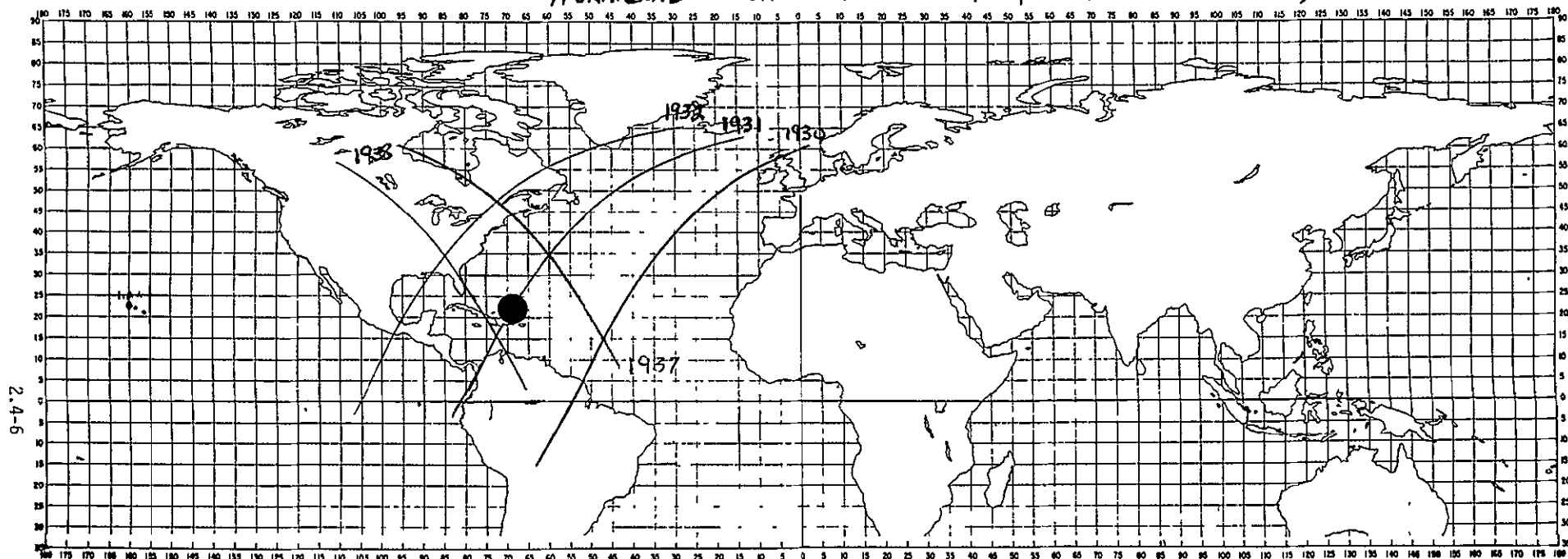
*Lowest Pressure

STORM: HURRICANE CAROLINE (Cont.)

DATE: AUG 28 - SEPT 4, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 9/1 | 0000Z | 25.1N | 98.3W | 1000 | 30 | Tropical Depression |
| | 0600Z | 25.2 | 98.7 | 1002 | 20 | |
| | 1200Z | 25.3 | 99.0 | 1002 | 20 | |

HURRICANE "CAROLINE" - 8/24/75 (1200Z - 2400Z)

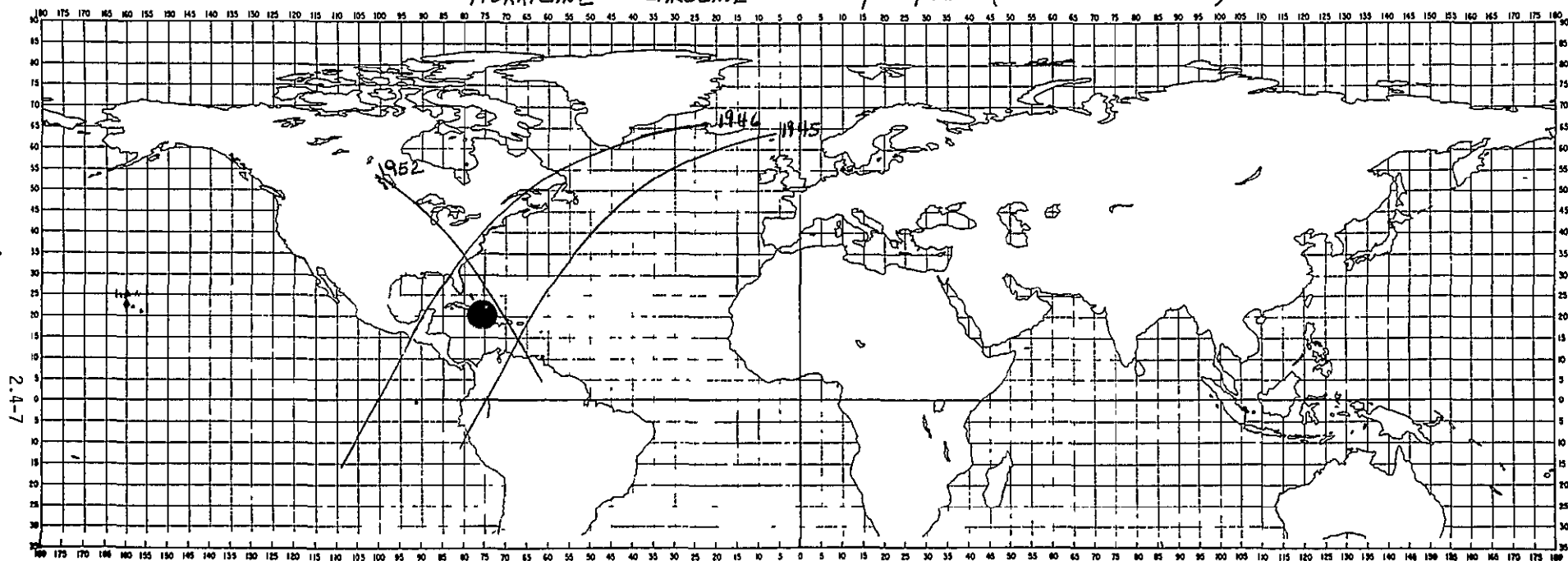


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1200Z | 22.4N | 69.8W |
| 1800Z | 21.9 | 71.1 |
| 2400Z | 21.6 | 72.5 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 1930 | + 137.62 | 09 24 26 | 1011Z | No | | | |
| 1931 | + 112.29 | 11 06 13 | 1150 | 114517 | 115609 | 802 | 261 |
| 1932 | + 86.97 | 12 45 00 | 1325Z | No | | | |
| 1937 | - 39.64 | 21 16 55 | 2127Z | No | | | |
| 1938 | - 64.97 | 22 58 42 | 2305Z | No | | | |
| | | | | | | | |

HURRICANE "CAROLINE" - 8/25/75 (0000Z - 2400Z)

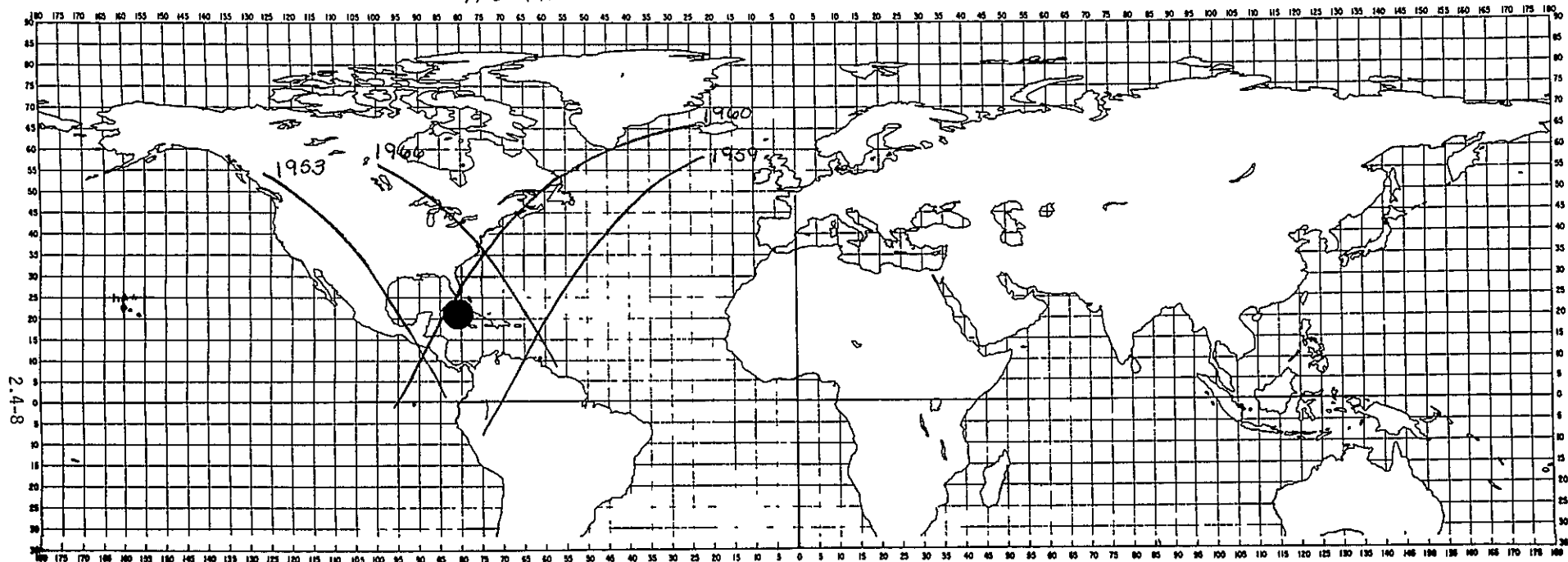


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|--------|----------|-----------|
| 0000 Z | 21.6 N | 72.5 W |
| 0600 Z | 21.2 | 73.8 |
| 1200 Z | 20.9 | 75.1 |
| 1800 Z | 20.6 | 76.4 |
| 2400 Z | 20.4 | 77.7 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Usage |
|-------|------------------|--------------------------|-----------------|----|-----|------|-------|
| 1945 | +117.77 | 10 51 12 | 1138 Z | No | | | |
| 1946 | +92.45 | 12 32 59 | 1316 Z | No | | | |
| 1952 | -59.50 | 22 43 42 | 2250 Z | No | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "CAROLINE" - 8/26/75 (0000Z - 2400Z)

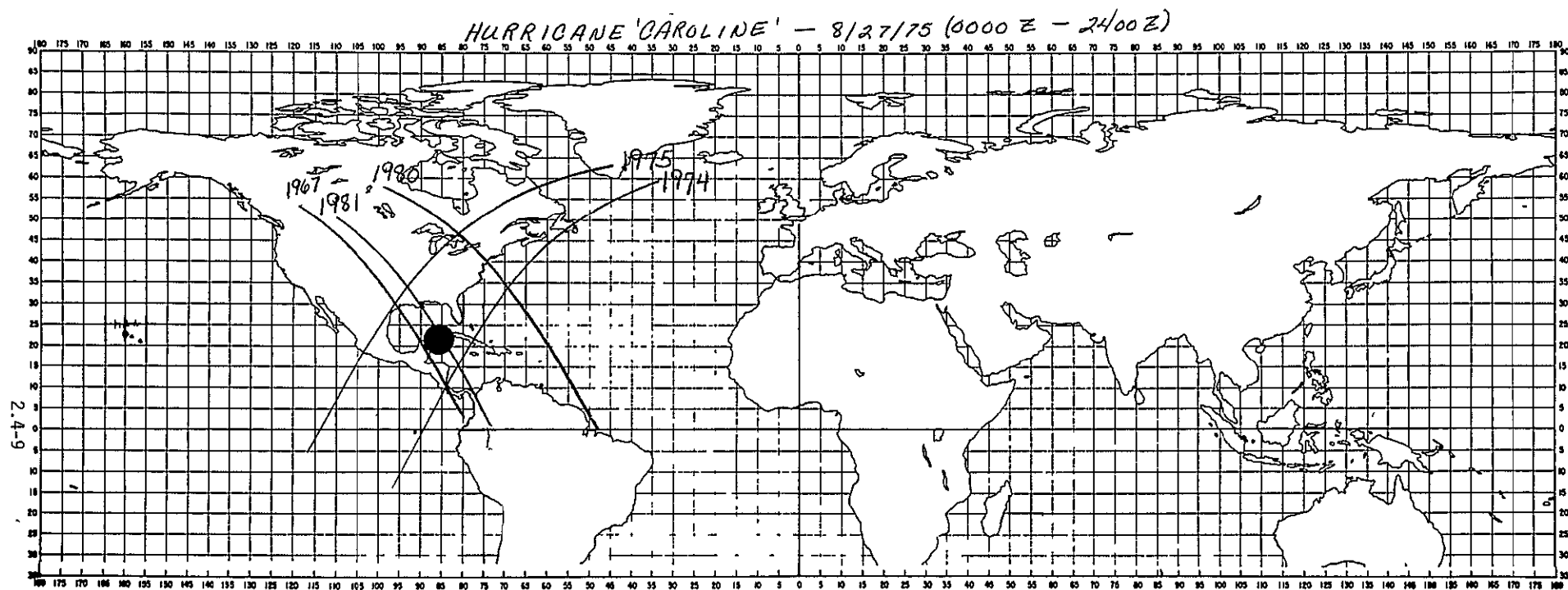


2.4-8

LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.4°N | 77.7°W |
| 0600Z | 20.3 | 79.0 |
| 1200Z | 20.2 | 80.3 |
| 1800Z | 20.2 | 81.6 |
| 2400Z | 20.4 | 82.8 |

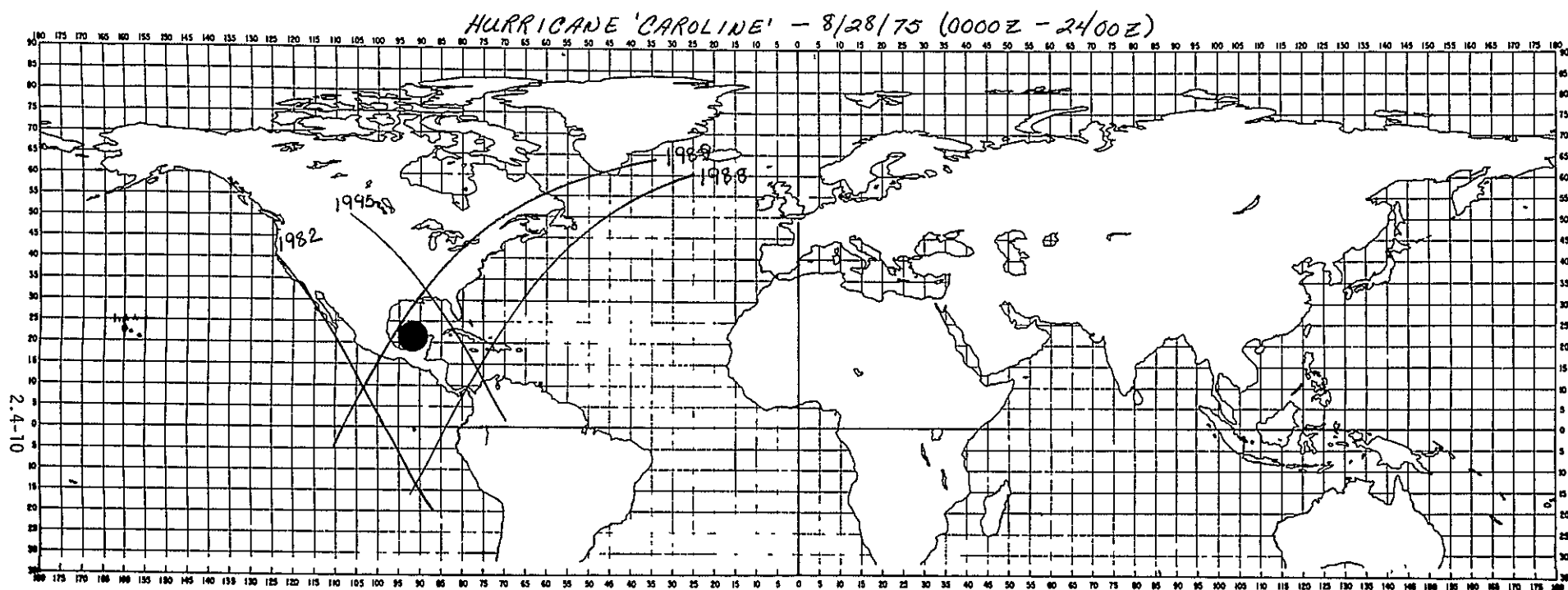
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Usage |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 1953 | -84.82 | 00.29.29 | 0029E | No | | | |
| 1959 | +123.24 | 10.36.12 | 1124E | No | | | |
| 1960 | +97.92 | 12.17.59 | 1302E | 125436 | 130343 | 80.2 | 282 |
| 1966 | -54.02 | 22.25.41 | 2234E | 223624 | 223951 | 80.2 | 289 |
| | | | | | | | |
| | | | | | | | |



LOCATION
TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.4 N | 82.8 W |
| 0600Z | 20.8 | 81.0 |
| 1200Z | 21.1 | 85.1 |
| 1800Z | 21.5 | 86.3 |
| 2400Z | 22.0 | 87.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unit # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 1967 | - 79.54 | 00 06 20 | 0011 Z | No | | | |
| 1974 | + 103.40 | 12 02 56 | 1248 Z | 124016 | 124936 | 802 | 294 |
| 1975 | + 78.07 | 13 44 45 | 1427 Z | No | | | |
| 1980 | - 48.54 | 22 13 41 | 2224 Z | No | | | |
| 1981 | - 73.47 | 23 55.26 | 0002 Z (8/28) | No | | | |



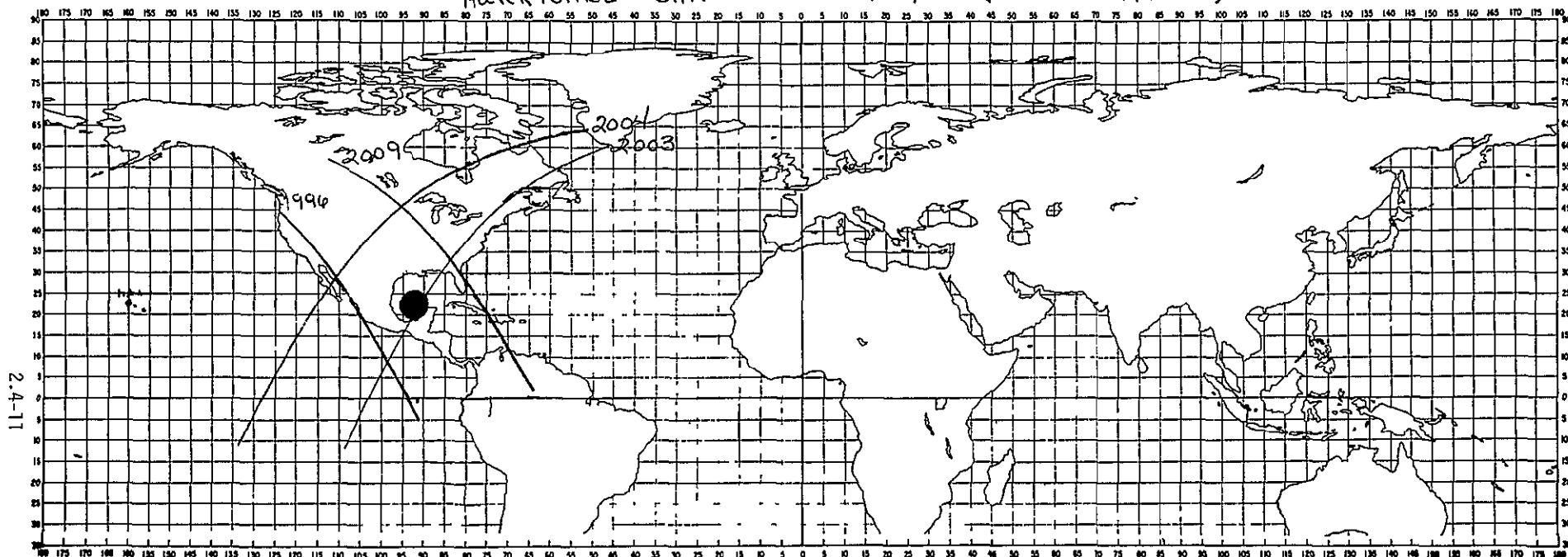
LOCATION

TROPICAL DEPRESSION 10N

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 22.0N | 87.5W |
| 0600Z | 22.4 | 88.8 |
| 1200Z | 22.8 | 90.1 |
| 1800Z | 22.9 | 91.0 |
| 2400Z | 23.0 | 91.9 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | On | Off | Mode | Height |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 1982 | - 99.19 | 01 37 15 | 0140Z | No | | | |
| 1988 | +108.37 | 11 47 57 | 1234Z | 122608 | 123225 | 802 | 30.3 |
| 1989 | + 83.59 | 13 29 44 | 1413Z | No | | | |
| 1995 | - 68.39 | 23 40 27 | 2349Z | No | | | |
| | | | | | | | |

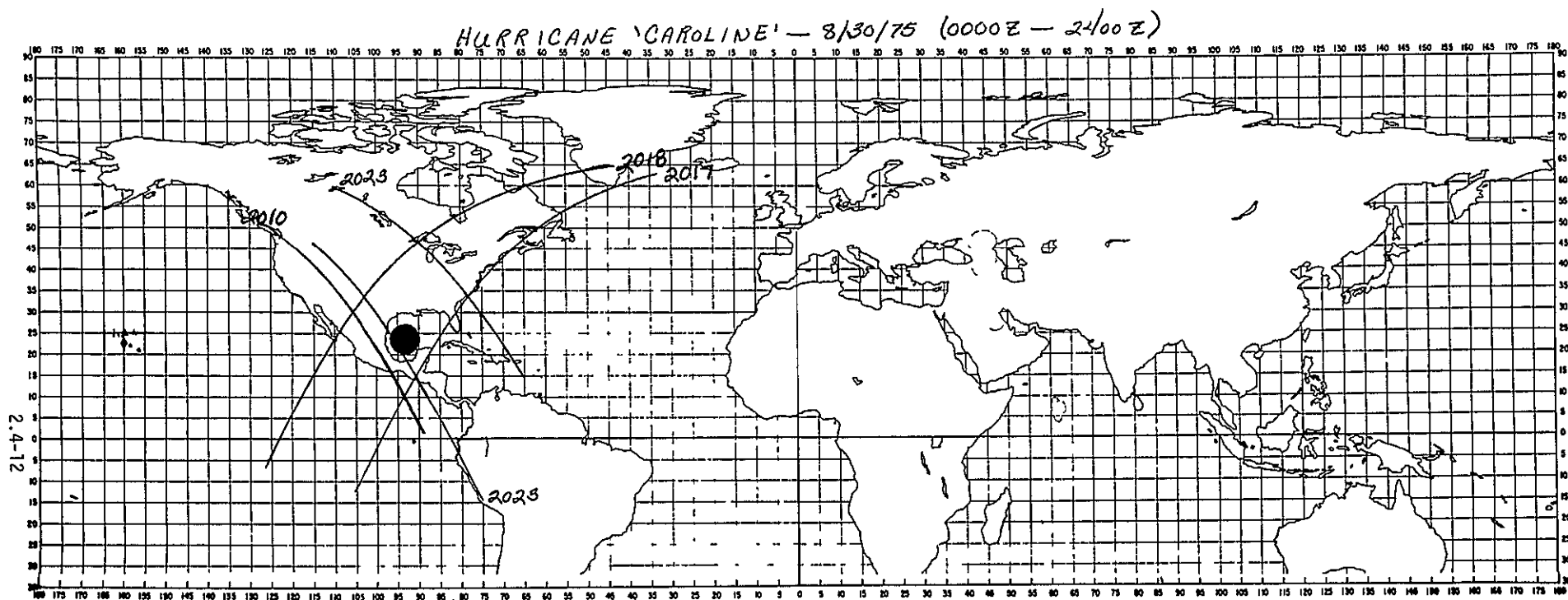
HURRICANE 'CAROLINE' — 8/29/75 (0000Z — 2400Z)



LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 23.0N | 91.9W |
| 0600Z | 23.1 | 92.6 |
| 1200Z | 23.2 | 93.2 |
| 1800Z | 23.2 | 93.6 |
| 2400Z | 23.3 | 94.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNION |
|-------|------------------|--------------------------|-----------------|----|-----|------|-------|
| 1996 | - 93 71 | 01 22 14 | 0127Z | No | | | |
| 2003 | + 89 02 | 13 14 44 | 1359Z | No | | | |
| 2004 | + 63 70 | 14 56 31 | 1536Z | No | | | |
| 2009 | - 62 92 | 23 25 26 | 2335Z | No | | | |
| | | | | | | | |



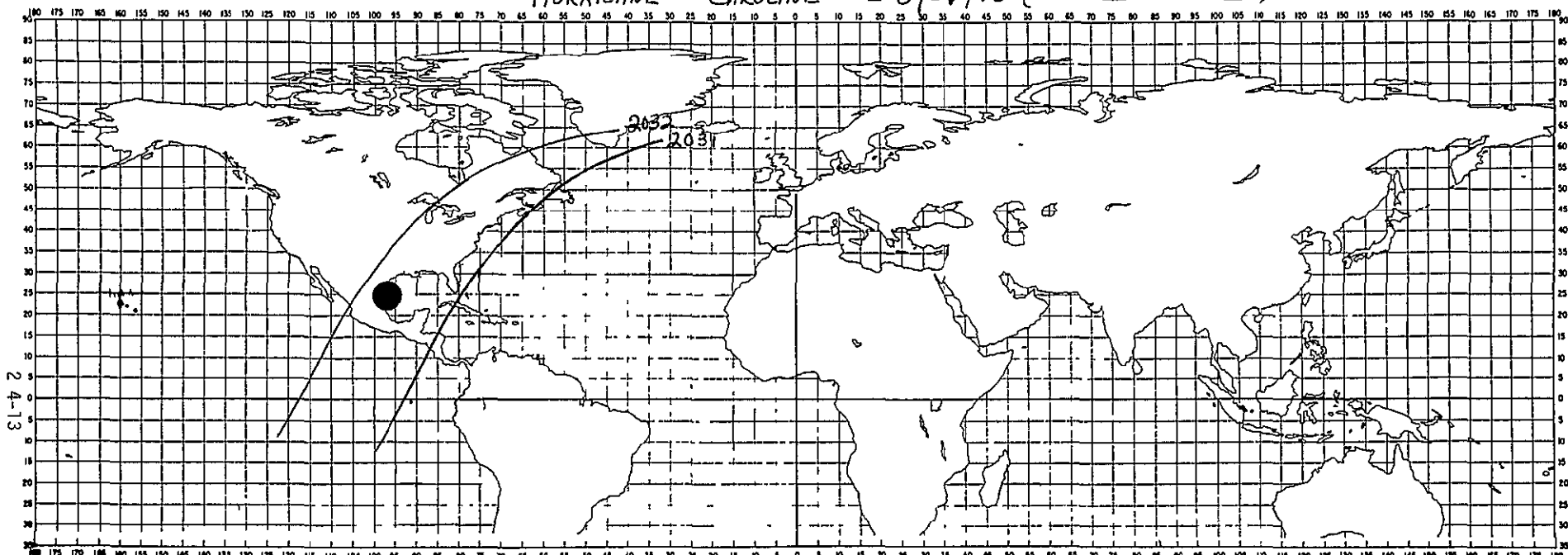
LOCATION

REACHED HURRICANE STATUS THIS DATE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 23.3N | 94.2W |
| 0600Z | 23.5 | 94.9 |
| 1200Z | 23.7 | 95.6 |
| 1800Z | 23.8 | 96.3 |
| 2400Z | 24.0 | 97.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|---------|--------|------|-------|
| 2010 | - 88 24 | 01 07 13 | 0113Z | No | | | |
| 2017 | + 94 50 | 12 59 43 | 1345Z | 1334/15 | 134731 | 802 | 325 |
| 2018 | + 69 17 | 14 41 30 | 1523Z | No | | | |
| 2023 | - 57 44 | 23 10 25 | 2311Z | No | | | |
| 2023 | - 57 44 | 23 10 25 | 0059Z (8/31) | 004810 | 010136 | 802 | 532 |

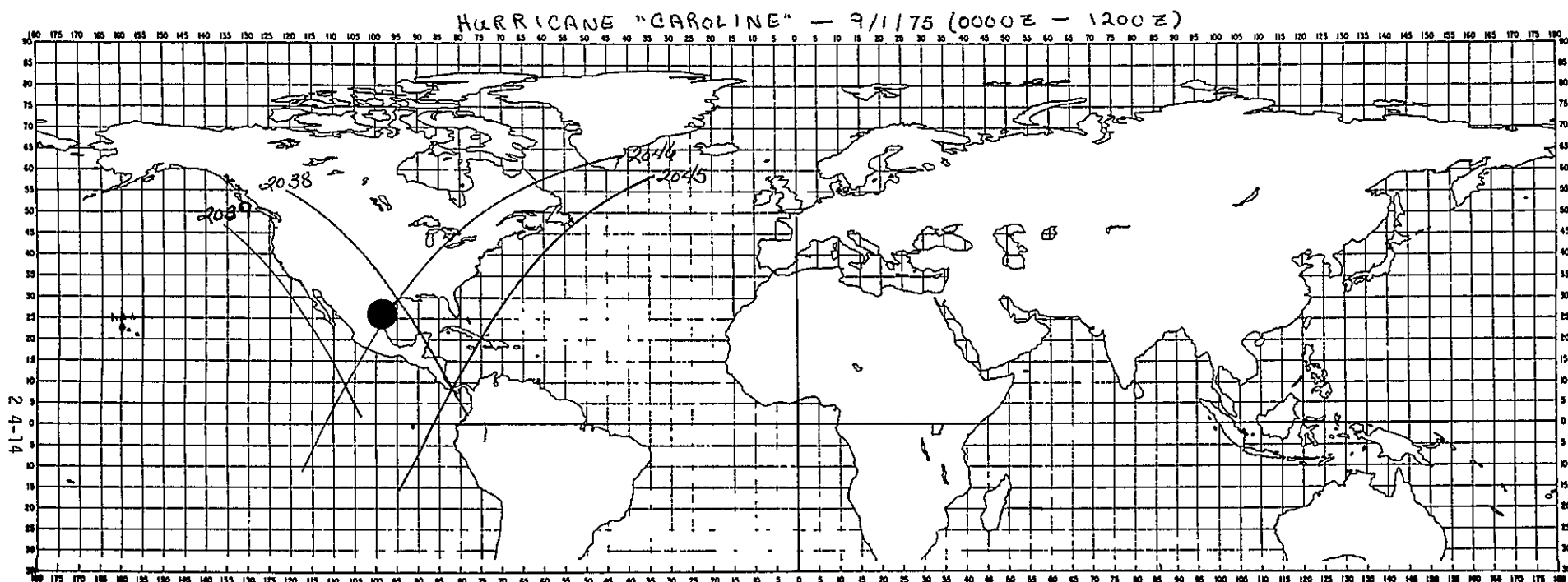
HURRICANE "CAROLINE" - 8/31/75 (0000Z - 2400Z)



LOCATION LAND FALL / TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 24.0 N | 97.0 W |
| 0600Z | 24.1 | 97.5 |
| 1200Z | 24.3 | 97.8 |
| 1800Z | 24.8 | 98.0 |
| 2400Z | 25.1 | 98.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|------|
| 2031 | +99.97 | 12 44 42 | 1329Z | 132121 | 133203 | 802 | 334 |
| 2032 | +74.65 | 14 26 29 | 1508Z | No | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



LOCATION

TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 25.1N | 98.3W |
| 0600Z | 25.2 | 96.7 |
| 1200Z | 25.3 | 99.0 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Units |
|-------|------------------|--------------------------|-----------------|---------|---------|------|-------|
| 2038 | - 77.29 | 00 37 12 | 0046Z | No | | | |
| 2039 | - 102.62 | 02 18 57 | 0224Z | No | | | |
| 2045 | + 105.45 | 12 29 41 | 1316Z | 1314/38 | 13154/2 | 802 | 34/2 |
| 2046 | + 80.12 | 14 11 29 | 1453Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE DORIS

August 28 - September 4, 1975

Meteorological History/Data

Hurricane Doris developed from a subtropical system in the mid-Atlantic. On August 27, a front which had swept southeastward over the north Atlantic was becoming stationary from the Azores southwestward. Ship reports that day suggested development of a wave along the front around latitude 31°N, longitude 46°W, although surface pressures were no lower than 1016 mb, as satellite photographs showed broadening of the cloud band associated with the front in that area. The system deepened during the next two days while satellite photographs showed that the associated cloud mass was becoming circular and completely isolated from the original frontal band. Although the system was not designated a subtropical storm until August 29, post analysis suggests it reached that stage on August 28.

At the outset, the storm's structure was typical of many subtropical cyclones investigated by Hebert and Poteat in the development of their subtropical classification system. There was no central dense overcast (CDO), and a band of strong convection existed well southeast of the surface center. However, the CDO began gradually to appear and by August 30 there was a well-defined CDO nearly three degrees of latitude in diameter. An eye was in evidence by August 31, and the system was upgraded to hurricane status on the basis of satellite photograph evaluation. Further intensification ensued, the hurricane reaching its maximum strength on September 2 and 3 when its maximum winds were estimated at 95 kts. with a minimum sea level pressure of 965 mb. By September 4, the storm had become absorbed in a prefrontal trough, losing tropical structure and strength as it moved on a north northeastward course north of latitude 40°N.

Unfortunately there are little data available, apart from ship reports and satellite imagery, to monitor the transformation of Doris from an essentially cold-core system to a hurricane. However, on August 28, when storm strength was attained, the surface circulation center was situated directly beneath the upper level low (200mb). There was little change in their relative positions until August 31 when the 200-mb low became an open trough with the hurricane located slightly west of its axis. By September 1, the trough had disappeared and Doris was under weak upper anticyclonic flow until September 3 when it moved under cyclonically curved westerlies, after which it weakened rapidly.

The initial motion of the storm was toward the northwest. After two days it turned east-southeastward in response to a prefrontal trough extending to lower latitudes. Finally, it accelerated north-northeastward ahead of a deepening extratropical low off the Canadian Maritime provinces.

^v
Damage Estimates

The hurricane was never a threat to any land area. It was monitored almost exclusively by ships and satellite, having been located beyond the authorized range of reconnaissance aircraft.

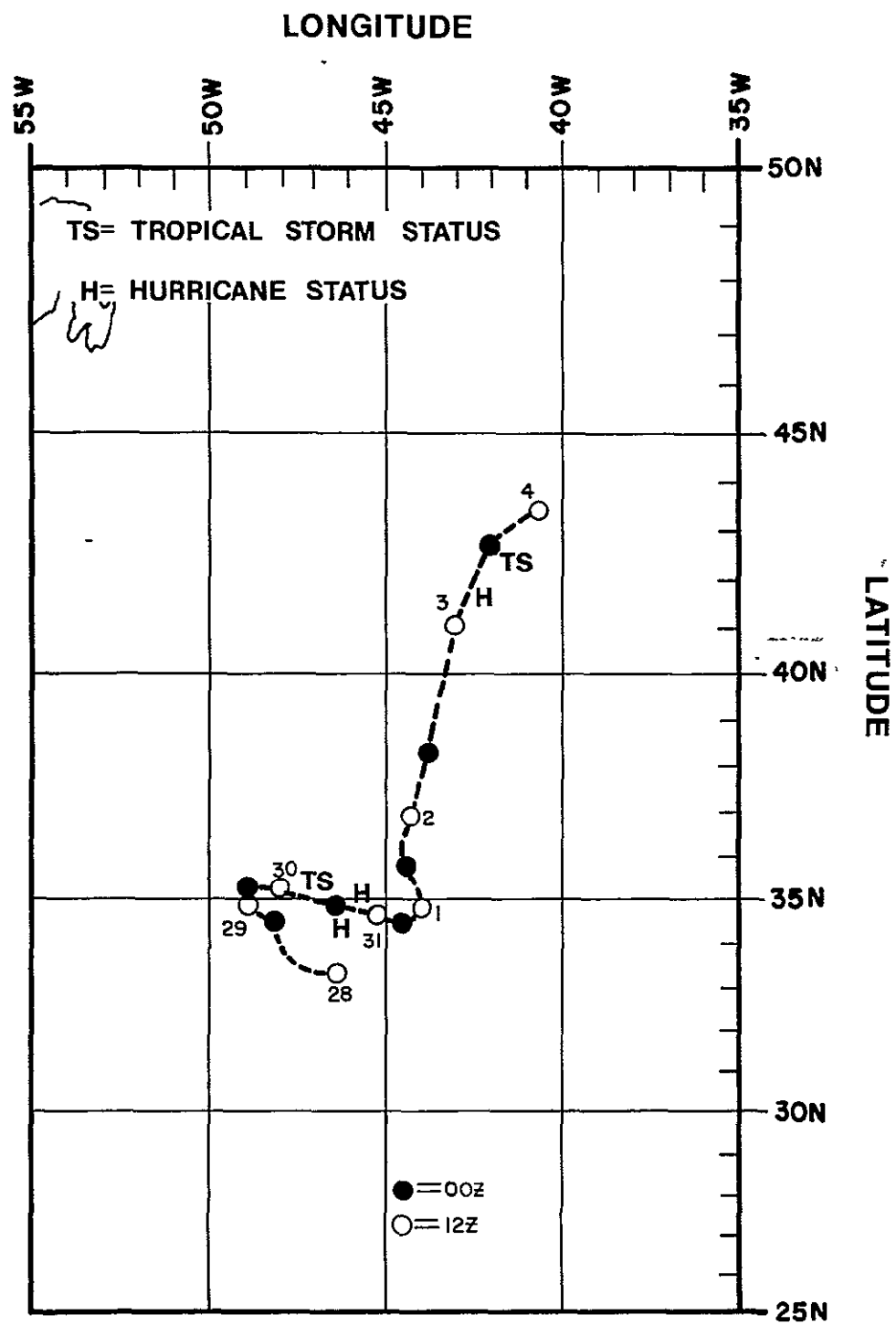


FIGURE 4. PRELIMINARY BEST TRACK FOR HURRICANE DORIS

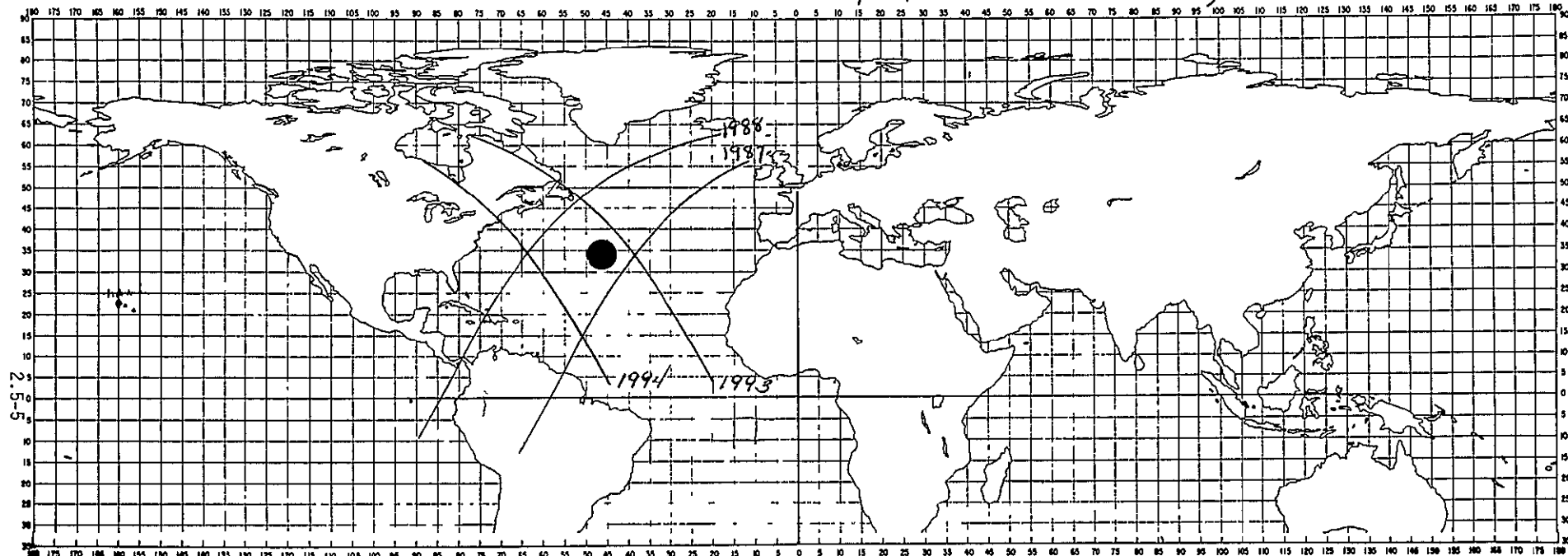
STORM: HURRICANE DORIS

DATE: AUG 28 - SEPT 4, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|----------|----------|-----------|---------------|------------|--|
| | | Latitude | Longitude | | | |
| 8/28 | 1200Z | 33.3N | 46.3W | 1005 | 35 | Subtropical |
| | 1800Z | 33.6 | 47.5 | ---- | 40 | |
| 8/29 | 0000Z | 34.5N | 48.1W | ---- | 40 | Tropical Storm |
| | 0600Z | 34.7 | 48.5 | ---- | 40 | |
| | 1200Z | 34.9 | 48.9 | ---- | 40 | |
| | 1800Z | 35.2 | 49.1 | 1000 | 50 | |
| 8/30 | 0000Z | 35.3N | 48.9W | 997 | 55 | Tropical Storm |
| | 0600Z | 35.3 | 48.5 | ---- | 55 | |
| | 1200Z | 35.3 | 48.0 | ---- | 55 | |
| | 1800Z | 35.0 | 47.1 | ---- | 55 | |
| 8/31 | 0000Z | 34.9N | 46.3W | 990 | 65 | Hurricane |
| | 0600Z | 34.8 | 45.7 | ---- | 65 | |
| | 1200Z | 34.7 | 45.2 | ---- | 65 | |
| | 1800Z | 34.6 | 44.9 | ---- | 65 | |
| 9/1 | 0000Z | 34.5N | 44.6W | 984 | 75 | Hurricane |
| | 0600Z | 34.6 | 44.2 | ---- | 75 | |
| | 1200Z | 34.9 | 44.0 | ---- | 75 | |
| | 1800Z | 35.4 | 44.0 | ---- | 75 | |
| 9/2 | 0000Z | 35.8N | 44.4W | 970 | 90 | Hurricane |
| | 0600Z | 36.4 | 44.5 | 965 | 95 | |
| | 1200Z | 37.0 | 44.3 | ---- | 95 | |
| | 1800Z | 37.7 | 44.2 | ---- | 95 | |
| 9/3 | 0000Z | 38.4N | 43.8W | ---- | 95 | Hurricane |
| | 0600Z | 39.7 | 43.6 | ---- | 95 | |
| | 1200Z | 41.1 | 43.0 | ---- | 95 | |
| | 1800Z | 42.0 | 42.5 | 970 | 90 | |
| 9/4 | 0000Z | 42.8N | 42.0W | 995 | 60 | Tropical Storm Extratropical Extratropical |
| | 0600Z | 43.2 | 41.4 | 1005 | 45 | |
| | 1200Z | 43.5 | 40.7 | ---- | 45 | |

* Minimum Sea Level Pressure

HURRICANE "DORIS" - 8/28/75 (1200Z - 2400Z)

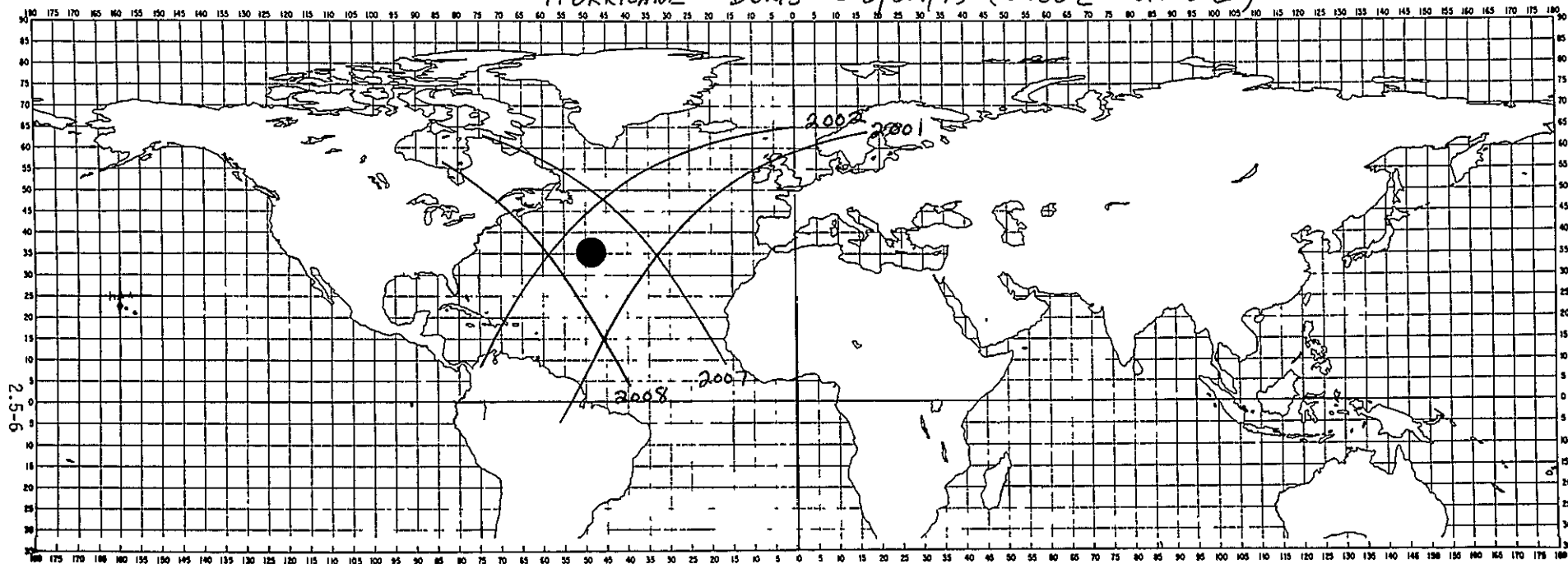


LOCATION SUBTROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1200Z | 33.3N | 46.3W |
| 1800Z | 33.6 | 47.5 |
| 2400Z | 34.5 | 48.1 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unq# |
|-------|------------------|--------------------------|-----------------|----|-----|------|------|
| 1987 | +134.20 | 10 06 10 | 1048Z | No | | | |
| 1988 | +108.37 | 11 47 57 | 1324Z | No | | | |
| 1993 | -17.75 | 20 16 53 | 2029Z | No | | | |
| 1994 | -43.07 | 21 58 40 | 2206Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "DORIS" - 8/29/75 (0000Z - 2400Z)

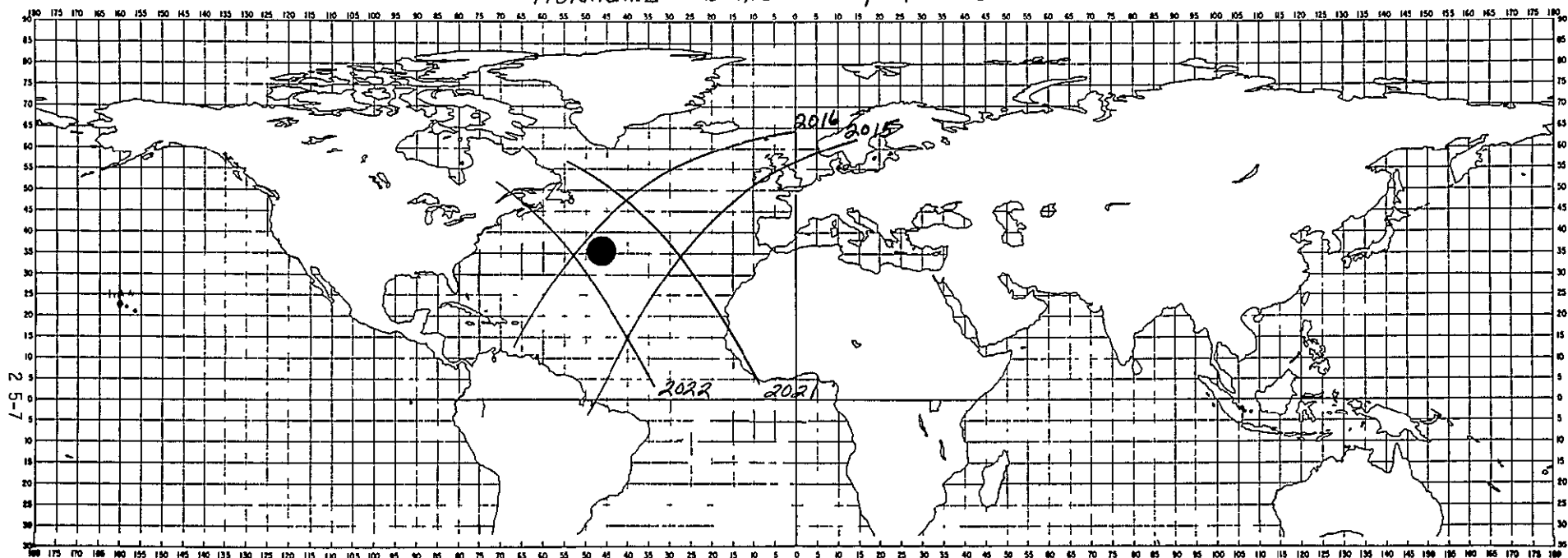


LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 34.5 N | 48.1 W |
| 0600Z | 34.7 | 48.5 |
| 1200Z | 34.9 | 48.9 |
| 1800Z | 35.2 | 49.1 |
| 2400Z | 35.3 | 48.9 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unq# |
|-------|------------------|--------------------------|-----------------|----|-----|------|------|
| 2001 | + 139.67 | 09 51 09 | 1033Z | No | | | |
| 2002 | + 114.34 | 11 32 57 | 1211Z | No | | | |
| 2007 | - 12.27 | 20 01 42 | 2015Z | No | | | |
| 2008 | - 37.59 | 21 43 39 | 2153Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "DORIS" - 8/30/75 (0000Z - 2400Z)

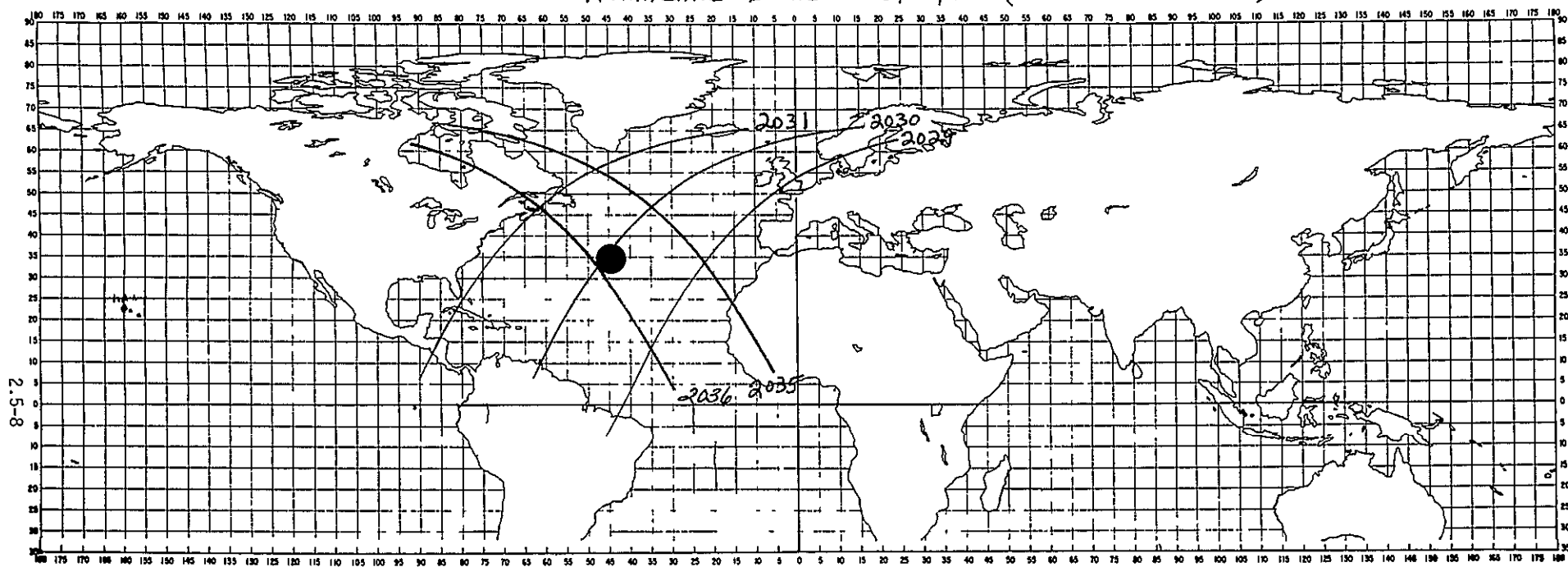


LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|--------|----------|-----------|
| 0000 Z | 35.3 N | 48.9 W |
| 0600 Z | 35.3 | 48.5 |
| 1200 Z | 35.3 | 48.0 |
| 1800 Z | 35.0 | 47.1 |
| 2400 Z | 34.9 | 46.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | On | Off | Mode | Unip# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2015 | +145.14 | 09 36 09 | 1018 Z | No | | | |
| 2016 | +119.82 | 11 17 56 | 1157 Z | No | | | |
| 2021 | - 6.79 | 19 46 51 | 2001 Z | No | | | |
| 2022 | - 32.12 | 21 28 38 | 2138 Z | 213757 | 214259 | 802 | 328 |

HURRICANE "DORIS" - 8/31/75 (0000Z - 2400Z)

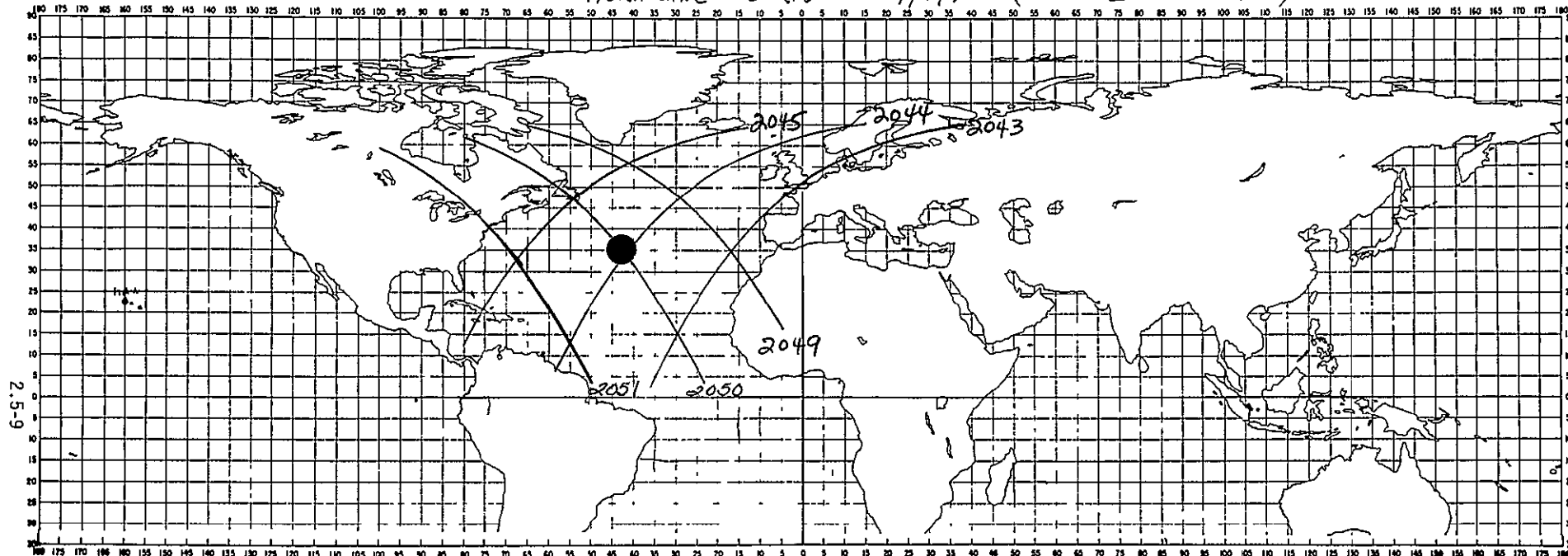


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 34.9N | 46.3W |
| 0600Z | 34.8 | 45.7 |
| 1200Z | 34.7 | 45.2 |
| 1800Z | 34.6 | 44.9 |
| 2400Z | 34.5 | 44.6 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | On | Off | Node | Unq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|------|
| 2029 | +150.62 | 09 21 08 | 1005Z | No | | | |
| 2030 | +125.29 | 11 02 55 | 1143Z | No | | | |
| 2031 | +99.97 | 12 44 42 | 1329Z | 132121 | 133203 | 802 | 334 |
| 2035 | -1.32 | 19 31 51 | 1947Z | No | | | |
| 2036 | -26.65 | 21 13 38 | 2124Z | No | | | |

HURRICANE "DORIS" - 9/1/75 (0000 Z - 2400 Z)

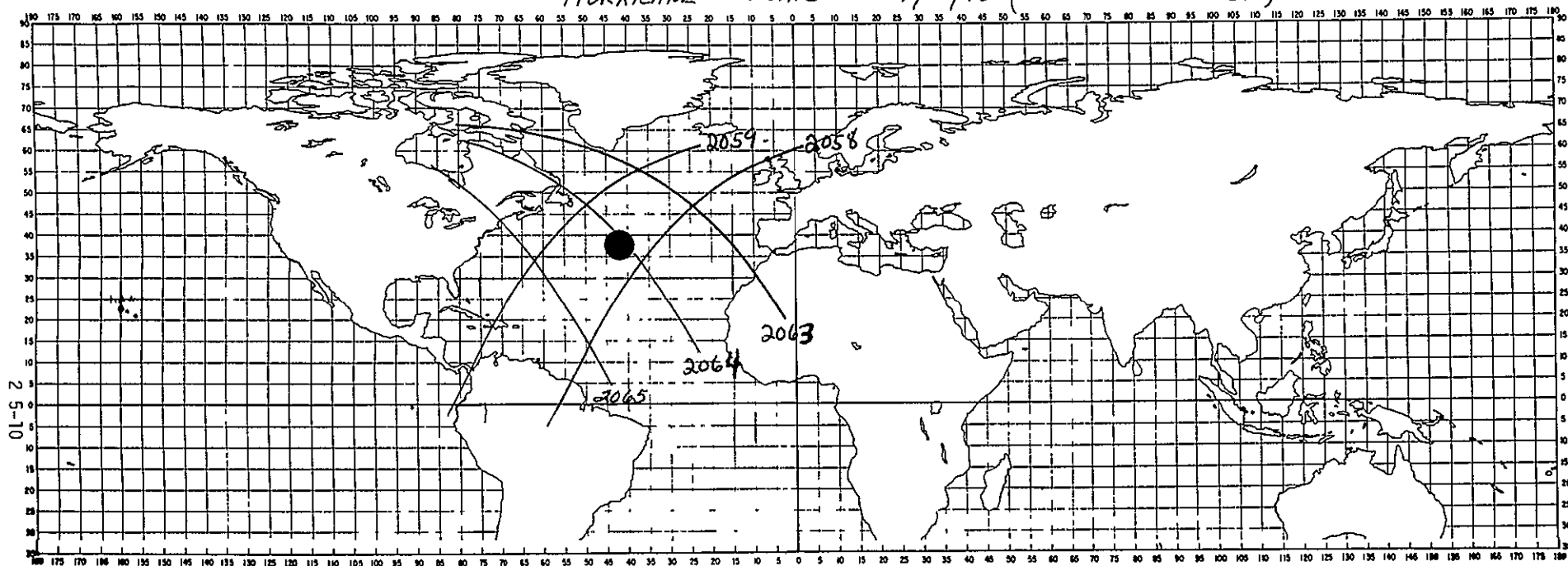


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|--------|----------|-----------|
| 0000 Z | 34.5 N | 44.6 W |
| 0600 Z | 34.6 | 44.2 |
| 1200 Z | 34.9 | 44.0 |
| 1800 Z | 35.4 | 44.0 |
| 2400 Z | 35.8 | 44.4 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2043 | +156.09 | 09 06 07 | 0950 Z | No | | | |
| 2044 | +130.77 | 10 47 54 | 1128 Z | No | | | |
| 2045 | +105.45 | 12 29 41 | 1305 Z | 131458 | 131542 | 802 | 342 |
| 2049 | + 4.15 | 19 16 50 | 1932 Z | No | | | |
| 2050 | - 21.17 | 20 58 37 | 2110 Z | No | | | |
| 2051 | - 48.49 | 22 40 24 | 2248 Z | 224946 | 225328 | 802 | 348 |

HURRICANE "DORIS" - 9/2/75 (0000Z - 2400Z)



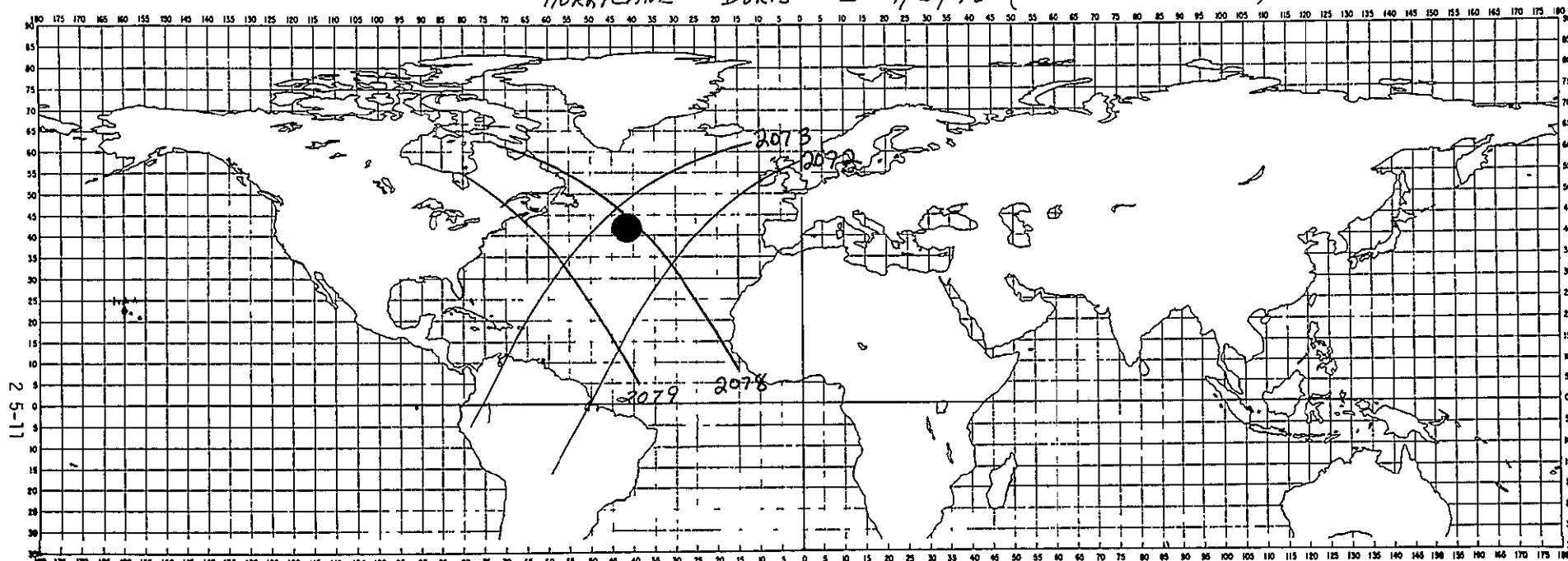
LOCATION

HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 35.8 N | 44.4 W |
| 0600Z | 36.4 | 44.5 |
| 1200Z | 37.0 | 44.3 |
| 1800Z | 37.7 | 44.2 |
| 2400Z | 38.4 | 43.8 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | DN | OFF | Model | Usage# |
|-------|------------------|--------------------------|-----------------|--------|--------|-------|--------|
| 2058 | +136.24 | 10 32 54 | 1113Z | No | | | |
| 2059 | +110.92 | 12 14 41 | 1251Z | No | | | |
| 2063 | + 9.63 | 19 01 49 | 1918Z | No | | | |
| 2064 | - 15.60 | 20 43 38 | 2055Z | No | | | |
| 2065 | - 41.02 | 22 25 23 | 2233Z | 223357 | 223914 | 802 | 359 |

HURRICANE "DORIS" - 9/3/75 (0000Z - 2400Z)



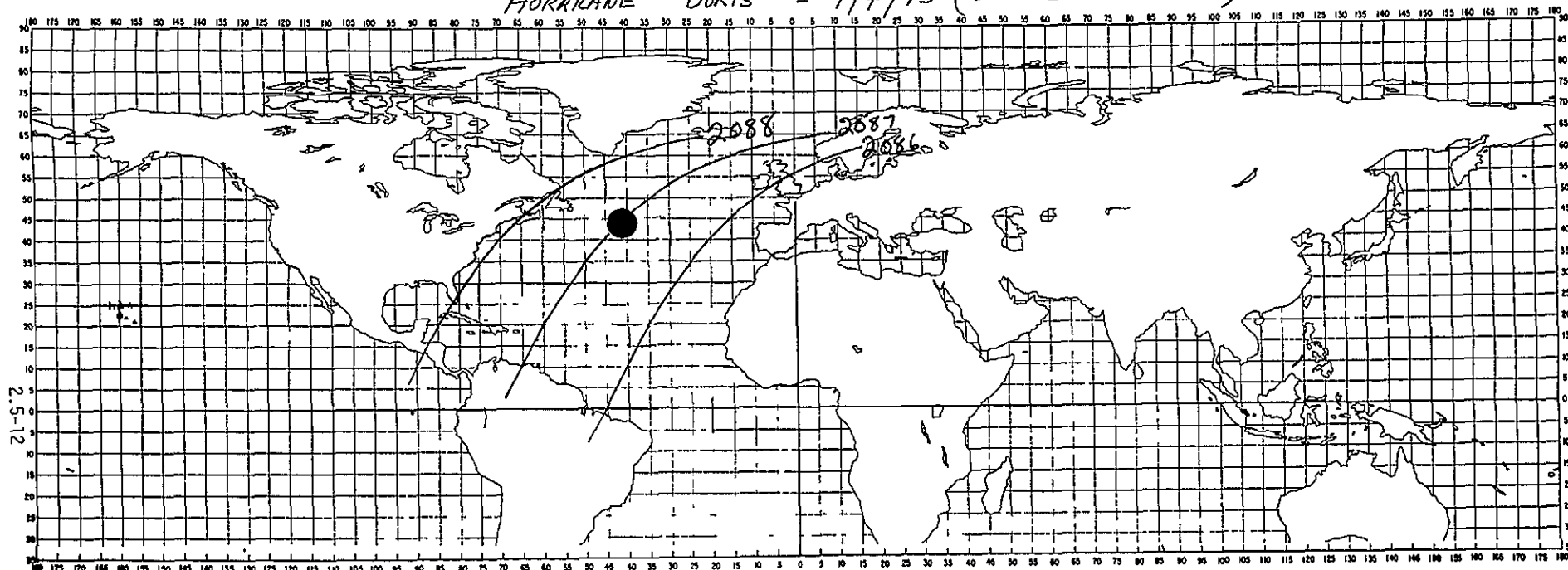
LOCATION

TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 38.4N | 43.8W |
| 0600Z | 39.7 | 43.6 |
| 1200Z | 41.1 | 43.0 |
| 1800Z | 42.0 | 42.5 |
| 2400Z | 42.8 | 42.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|----|-----|------|-------|
| 2072 | +141.72 | 10 17 53 | 1059Z | No | | | |
| 2073 | +116.39 | 11 59 40 | 1237Z | No | | | |
| 2078 | - 10.22 | 20 23 35 | 2037Z | No | | | |
| 2079 | - 35.55 | 22 10 23 | 2220Z | No | | | |
| | | | | | | | |

HURRICANE "DORIS" - 9/4/75 (0000Z - 1200Z)



LOCATION TROPICAL STORM / EXTRATROPICAL (0600Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 42.8 N | 72.0 W |
| 0600Z | 43.2 | 41.4 |
| 1200Z | 43.5 | 40.7 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Model | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|-------|-------|
| 2086 | +147.19 | 10 02 52 | 1045 Z | No | | | |
| 2087 | +121.57 | 11 44 39 | 1221 Z | No | | | |
| 2088 | +96.55 | 13 26 26 | 1359 Z | 135951 | 141406 | 802 | 327 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE ELOISE

September 13 - 24, 1975

Meteorological History

The disturbance which spawned Eloise left the African west coast on September 6 as a rather unimpressive system on satellite pictures, although the Dakar, Senegal, upper air sounding gave evidence of a fairly strong cyclonic circulation at lower levels. The disturbance moved westward at an average speed of 13 knots during the next six days with satellite pictures and ship reports giving evidence of a very gradual increase in convection and organization.

The first sign that a weak depression had formed came early on the 13th when the Netherlands tanker GULF HANSA (PELP)¹ reported northerly winds of 20 kt and seas up to 10 feet. Later that morning an Air Force reconnaissance aircraft located the center about 600 miles east of the Virgin Islands. Satellite pictures, and ship and reconnaissance reports during the following 48 hours confirmed a trend of slow intensification. A reconnaissance aircraft found that winds had reached tropical storm strength during the early morning hours of the 16th, and the first advisory on Eloise was issued by the San Juan Hurricane Warning Office at 6 AM AST. Previously, bulletins had been issued since the 13th warning the northern Leewards, Virgin Islands and Puerto Rico of heavy rains and gusty winds to gale force.

Eloise strengthened rapidly and NOAA aircraft reported winds reached minimal hurricane force prior to its striking the northeast coast of the Dominican Republic late on the 16th. For the next 36 hours the center and much of the circulation was over land. Falling pressures to the northwest of Eloise were expected to keep the center north of the Dominican Republic and Cuba. However, the center tracked westward across extreme southeastern Cuba into the northwestern Caribbean Sea north of Jamaica.

The mountainous terrain of Hispaniola and Cuba caused Eloise to weaken to a minimal tropical storm with a marked decrease in associated rainfall by the time the center finally emerged over open water.

A favorable upper level flow pattern continued over the storm, as it had since the 13th, with anticyclonic outflow enhanced by a cold low traveling westward about 500 miles in advance. The lower level circulation had been distorted by the encounter with land and was also somewhat adversely affected by an approaching trough from the west. Even though the center was over the open, warm waters of the Caribbean Sea and rising

¹As an interesting footnote, the ship moved parallel to the track of Eloise from the African coast to the Gulf of Mexico at the same speed but managed to beat Eloise to port.

pressure to the north were contributing to more favorable low level conditions, Eloise remained poorly organized until it approached the northeast coast of Yucatan late on the 20th with winds of gale force mainly in squalls northeast of the center. From the time the center approached the Dominican Republic until it moved into the central Gulf of Mexico it varied from 40-60 miles in diameter. Reconnaissance reports and upper air soundings suggested a fairly large slope of the center with height from the surface prior to its reaching the Gulf of Mexico, and satellite pictures continually showed the heaviest convection well south and east of the center. Lack of reconnaissance and surface reports while the broad center was over the Dominican Republic, Cuba, and adjacent waters has led to more than normal uncertainty in the locations and intensities on the best track from September 17/00Z to 21/12Z.

An approaching upper level trough in the westerlies caused Eloise to turn to the north after crossing the Yucatan peninsula just north of Cozumel, Mexico. This enhanced an already favorable outflow pattern aloft, while rising pressures around the storm had made low level conditions more favorable for intensification. Eloise began a steady strengthening north of the Yucatan peninsula, regaining hurricane force in the central Gulf of Mexico about 350 miles south of New Orleans on the morning of the 22nd. The hurricane continued strengthening until landfall about midway between Fort Walton Beach and Panama City shortly after 8 AM EDT on the 23rd. At that time it was moving north-northeast at better than 20 knots, and had been monitored continuously by Air Force reconnaissance aircraft and National Weather Service radar at Pensacola, Apalachicola, and Slidell (New Orleans) during the last 12 hours prior to landfall.

The hurricane weakened rapidly after landfall as drier, colder air was drawn into its circulation. It was downgraded to a tropical storm by noon while over east central Alabama, a tropical depression by early evening while over eastern Tennessee, and lost all tropical characteristics by the time it reached extreme western Virginia on the morning of the 24th.

A low pressure center identifiable as the remnant of Eloise was no longer discernable by late on the 24th. However, the moisture brought northward by the hurricane combined with an old frontal system over the northeastern U.S. to produce heavy rainfall and serious flooding until skies cleared on the 27th.

Meteorological Data/Deaths/Damage Estimates

Northern Leeward Islands, Virgin Islands, Puerto Rico, Dominican Republic, and Haiti. The primary effects of Eloise in these areas was flooding resulting from torrential rains and consequent deaths and damages. Total storm rainfall amounts ranged from 5 to 10 inches from St. Kitts and St. Martin westward across St. Croix to Puerto Rico with

amounts of 10 to 20 inches common over eastern and southwestern Puerto Rico. The greatest total reported was 26.7 inches near Sabana Grande in southwest Puerto Rico. Lesser amounts of 1 to 3 inches fell at St. Thomas and other northern Leeward Islands. No storm totals are available from Hispaniola; however, incomplete rainfall observations and satellite pictures indicate that torrential rains occurred over the eastern and southern portions of the Dominican Republic and southern Haiti.

River and flash floods and landslides caused most of the deaths in this area. Press accounts report 18 deaths in southern Haiti and 7 deaths in the Dominican Republic. As of late September there were 34 confirmed deaths in Puerto Rico with 29 people missing. Property damage in Puerto Rico is estimated in excess of \$60 million with no estimates elsewhere.

The strongest winds were north of the center and remained offshore from Puerto Rico and the Dominican Republic. St. Croix had a gust to 45 knots. Ponce and Mayaguez in Puerto Rico, had gusts to 35 knots. The maximum sustained wind of 45 knots was reported from Cape Engano on the northeastern tip of the Dominican Republic.

Extreme Southeastern Bahamas, Cuba, Jamaica, Cayman Islands, Northeast Yucatan. Eloise weakened throughout most of the period it was affecting these areas. In addition, satellite pictures indicated most of the heavier rainfall missed the land areas. A squall of 45 knots occurred on Cayman Brac during the afternoon of the 19th. Sustained winds of 40 knots were reported along the southeast coast of Cuba on the 18th. There were no other reports of high winds, and no deaths or significant damage reports from this region.

United States.

Southeast. Eloise strengthened until reaching the coast with the minimum pressure of 955 mb observed at Destin, Florida. The maximum sustained surface winds during Eloise's lifetime were estimated to be 110 knots, also at landfall, although flight level winds reported by reconnaissance aircraft at 700 mb were somewhat higher.

The highest sustained winds along the coast were not measured as most wind measuring equipment failed. However, a gust to 135 knots was observed on a 38-foot tower in Panama City. Winds of hurricane force were reported from Fort Walton Beach to Panama City and northward into extreme southeastern Alabama. Gales were reported from the southeastern Louisiana delta to Cedar Key, Florida, and northward over most of Alabama and western Georgia to extreme southeastern Tennessee.

Preliminary measurements indicate hurricane tides of 12 to 16 feet above normal occurred from just east of Fort Walton Beach to south of Panama City. Tides of 6 to 12 feet were reported eastward to Port St. Joe with 3 to 5 feet elsewhere in the gale warning area, and 2 to 3 feet along the Florida west coast from Naples northward to Cedar Key.

Preliminary reports indicate 10 or more tornadoes occurred from northwestern Florida to western North Carolina, causing no deaths and only minor damage.

Rainfall amounts ranged from 4 to 8 inches from extreme southeastern Louisiana to the Panama City area and northeastward to the western Carolinas. The greatest total reported was 13 inches at Eglin Air Force Base, Florida.

There were 2 storm related deaths - a heart attack victim in a storm shelter in Panama City, and an electrocution in eastern Alabama. Most of the estimated 100 to 150 million dollars damage occurred along the 25 mile Panama City Beach strip, mainly as a result of the high tides undermining the beachfront structures.

Approximately 20,000 persons were evacuated along the northwest Florida coast and 30,000 over lower Plaquemines Parish and Grand Isle in extreme southern Louisiana.

Northeast. A low pressure center identifiable as the remnants of Eloise was no longer apparent late on the 24th. However, the combination of the moisture brought northward by Eloise and a stagnant frontal zone produced rainfall amounts of 4 to 10 inches over a large area from northern Virginia and Maryland through Delaware and New Jersey into the eastern two-thirds of Pennsylvania and New York.

Major flooding took place on the Chemung, Susquehanna, Potomac and Shenandoah rivers with flash floods along smaller rivers and streams.

As of September the death toll had reached 10. Damage estimates range between 100 to 200 million dollars with the bulk of it occurring as crop and road damage in Pennsylvania and New York.

Forecasts and Warnings

Warnings of flooding from heavy rains were given for Puerto Rico and the Virgin Islands 24 hours or more in advance. Hurricane warnings for the Dominican Republic were issued less than 12 hours in advance because of the rapid intensification of Eloise.

Although hurricane warnings were issued 24 hours in advance for the Gulf coast area devastated by Eloise, the forecast error for landfall was about the average for landfalling U.S. storms/hurricanes, the rather early mention of a landfall point led to some misinterpretation of the warnings, and a subsequent delay in action on evacuation.

Eloise generated hurricane tides somewhat higher than previous numerical and empirical techniques had indicated for a hurricane of this strength. The peak surge rose rapidly, lasting about 30 minutes. The presence of sand dunes in the landfall area may have contributed to some of these effects, but further study is needed before any definite conclusions can be made. There is little doubt, however, that the erosion of the sand dunes led to much of the destruction along the beaches.

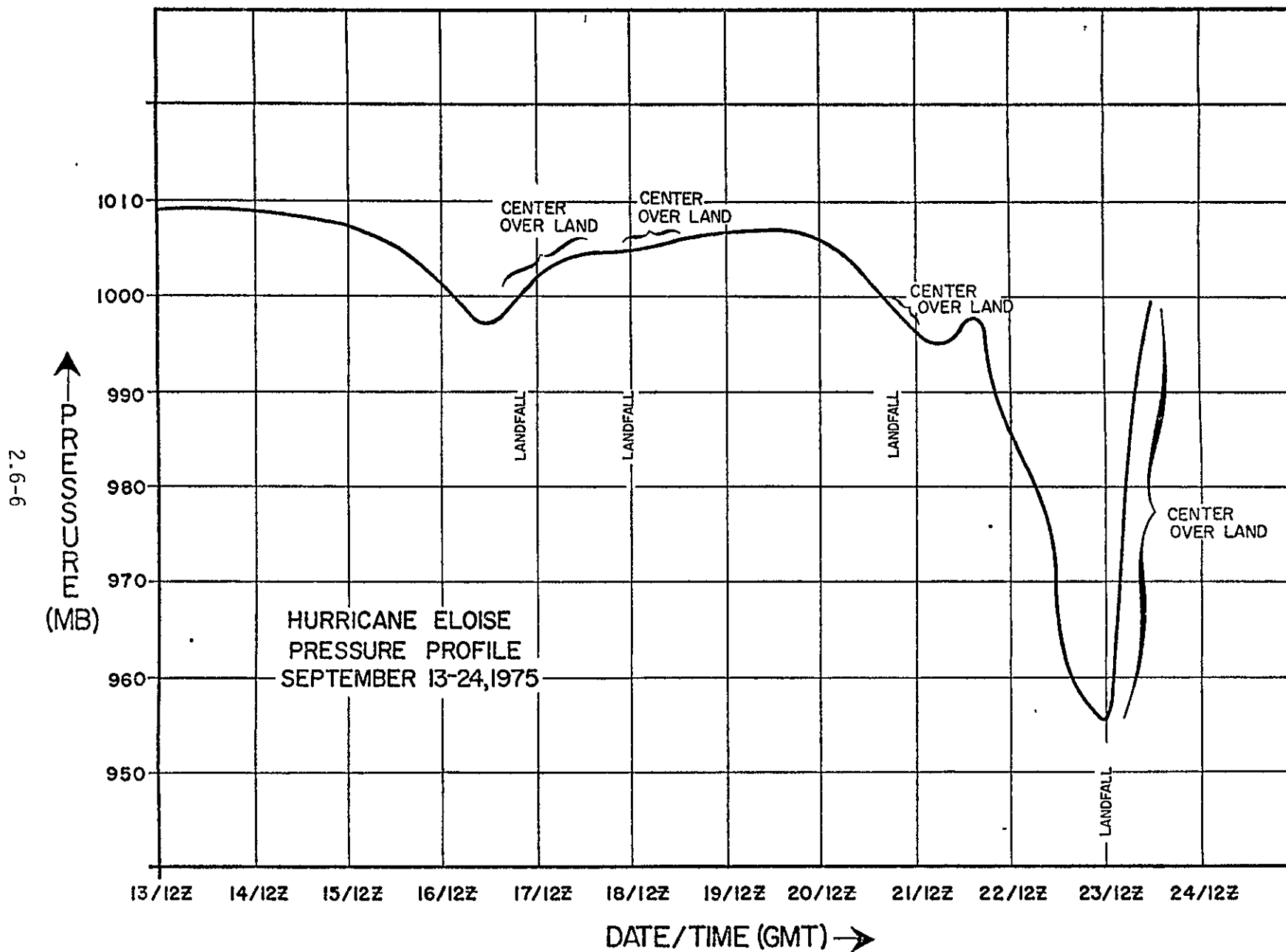


FIGURE 5. HURRICANE ELOISE PRESSURE PROFILE (September 13 -- 24, 1975)

STORM: HURRICANE ELOISE

DATE: SEPT 13 - SEPT 24, 1975

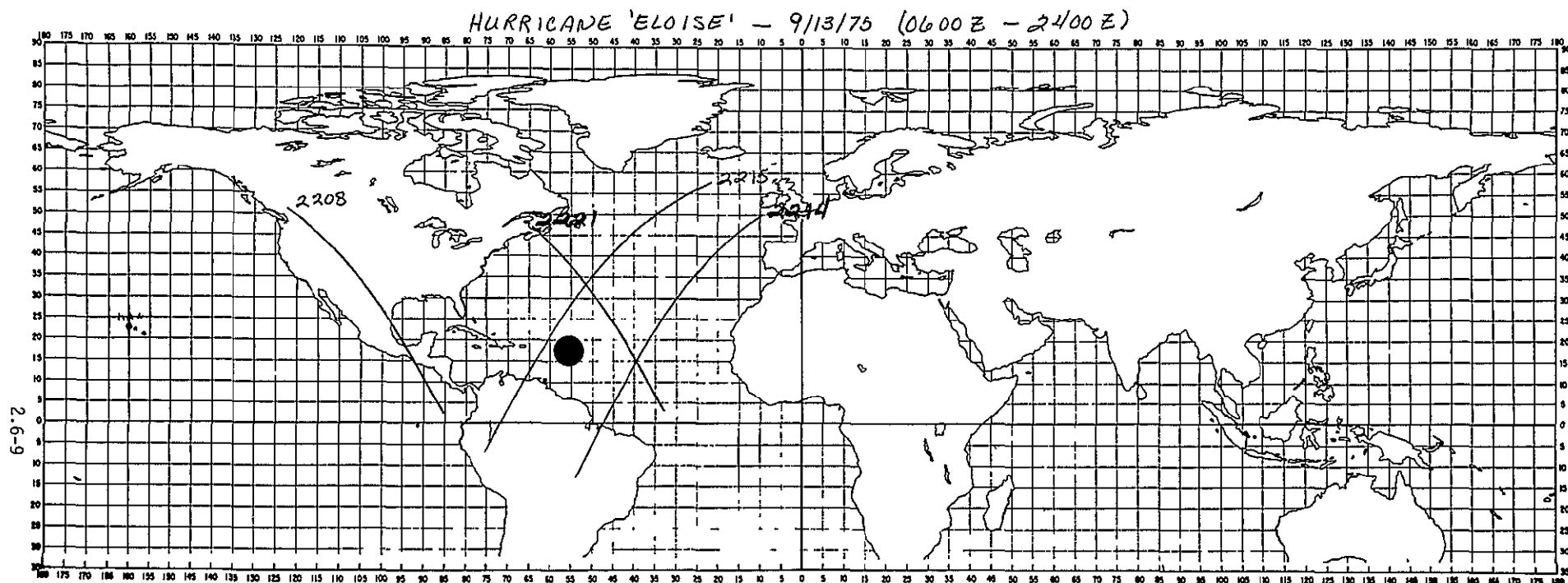
| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------------------|
| | | Latitude | Longitude | | | |
| 9/13 | 0600Z | 17.5N | 54.1W | ---- | 25 | Tropical Depression |
| | 1200Z | 17.6 | 55.2 | 1009 | 25 | |
| | 1800Z | 17.7 | 56.3 | ---- | 25 | |
| | | | | | | |
| 9/14 | 0000Z | 17.8N | 57.3W | ---- | 25 | Tropical Depression |
| | 0600Z | 17.9 | 58.3 | ---- | 25 | |
| | 1200Z | 18.0 | 59.4 | 1009 | 25 | |
| | 1800Z | 18.1 | 60.5 | ---- | 25 | |
| 9/15 | 0000Z | 18.3N | 61.7W | ---- | 25 | Tropical Depression |
| | 0600Z | 18.5 | 62.8 | ---- | 25 | |
| | 1200Z | 18.8 | 63.8 | 1007 | 30 | |
| | 1800Z | 18.9 | 64.8 | ---- | 30 | |
| 9/16 | 0000Z | 19.0N | 65.6W | ---- | 35 | Tropical Storm Hurricane |
| | 0600Z | 19.2 | 66.7 | ---- | 45 | |
| | 1200Z | 19.4 | 67.5 | 1002 | 55 | |
| | 1800Z | 19.5 | 68.4 | ---- | 65 | |
| 9/17 | 0000Z | 19.6N | 69.2W | 997 | 65 | Hurricane Tropical Storm |
| | 0600Z | 19.7 | 70.2 | 1000 | 60 | |
| | 1200Z | 19.7 | 71.2 | ---- | 55 | |
| | 1800Z | 19.8 | 72.2 | ---- | 50 | |
| 9/18 | 0000Z | 19.9N | 73.3W | ---- | 45 | Tropical Storm |
| | 0600Z | 19.9 | 74.5 | ---- | -- | |
| | 1200Z | 19.9 | 75.7 | ---- | 40 | |
| | 1800Z | 20.0 | 77.0 | ---- | -- | |
| 9/19 | 0000Z | 20.0N | 78.2W | ---- | 35 | Tropical Storm |
| | 0600Z | 19.9 | 79.1 | ---- | -- | |
| | 1200Z | 19.9 | 79.8 | ---- | -- | |
| | 1800Z | 19.8 | 81.0 | ---- | -- | |
| 9/20 | 0000Z | 19.8N | 82.2W | ---- | -- | Tropical Storm |
| | 0600Z | 19.8 | 83.4 | ---- | -- | |
| | 1200Z | 19.9 | 84.6 | 1006 | -- | |
| | 1800Z | 20.0 | 85.5 | ---- | -- | |

STORM: HURRICANE ELOISE (CONT.)

DATE: SEPT 13 - SEPT 24, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|----------|----------|-----------|---------------|------------|--|
| | | Latitude | Longitude | | | |
| 9/21 | 0000Z | 20.2N | 86.4W | 1001 | 40 | Tropical Storm |
| | 0600Z | 20.8 | 87.1 | ---- | 45 | |
| | 1200Z | 21.4 | 87.8 | ---- | 50 | |
| | 1800Z | 22.4 | 88.5 | 995 | 55 | |
| 9/22 | 0000Z | 23.6N | 88.9W | ---- | 60 | Tropical Storm Hurricane |
| | 0600Z | 24.8 | 89.4 | 993 | 65 | |
| | 1200Z | 25.8 | 89.5 | 986 | 75 | |
| | 1800Z | 26.5 | 89.4 | 980 | 85 | |
| 9/23 | 0000Z | 27.3N | 88.5W | 968 | 95 | Hurricane |
| | 0600Z | 28.4 | 87.3 | 958 | 105 | |
| | 1200Z | 30.2 | 86.3 | 955 | 110 | Tropical Storm |
| | 1800Z | 33.0 | 85.7 | 982 | 55 | |
| 9/24 | 0000Z | 35.5N | 84.3W | 999 | 30 | Tropical Depression Extratropical Extratropical Extratropical |
| | 0600Z | 36.5 | 83.5 | 1004 | 20 | |
| | 1200Z* | 37.0 | 82.5 | ---- | -- | |
| | 1800Z | 37.5 | 81.5 | ---- | -- | |

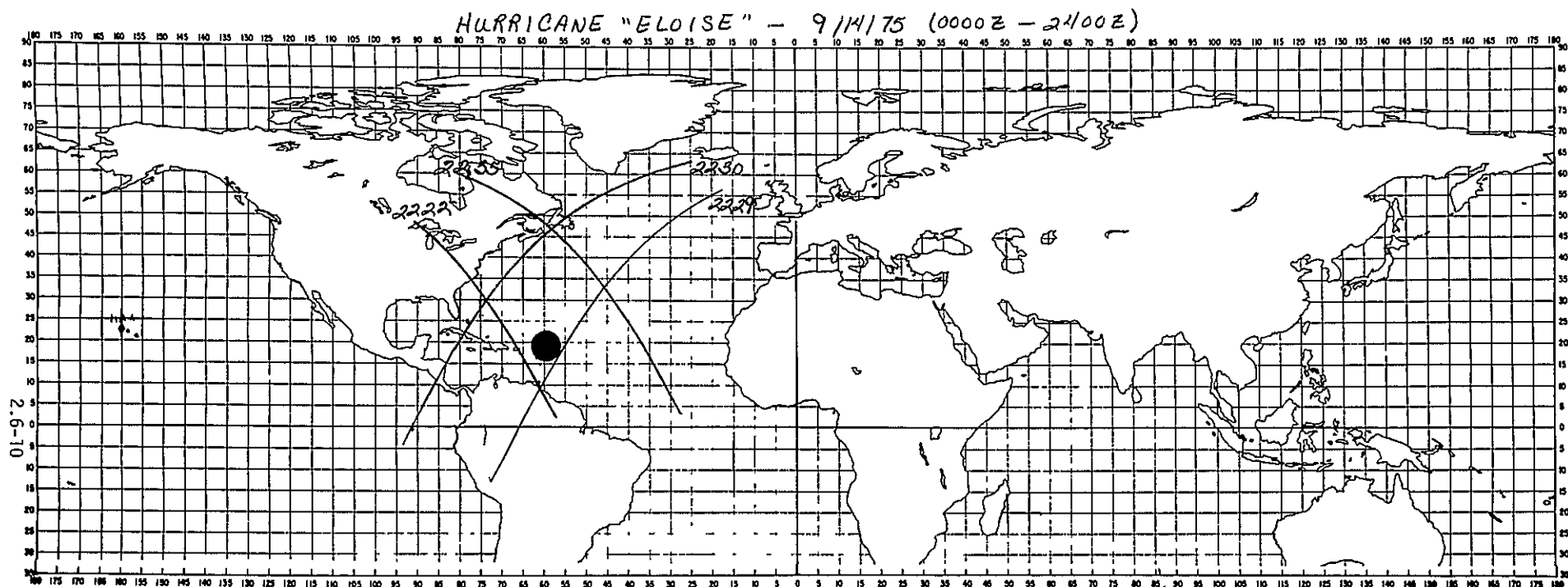
*Landfall - 36.4°N, 86.2°W at 23/1215Z



LOCATION
TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0600Z | 17.5N | 54.1W |
| 1200Z | 17.6 | 55.2 |
| 1800Z | 17.7 | 56.3 |
| 2400Z | 17.8 | 57.3 |
| --- | --- | --- |
| --- | --- | --- |

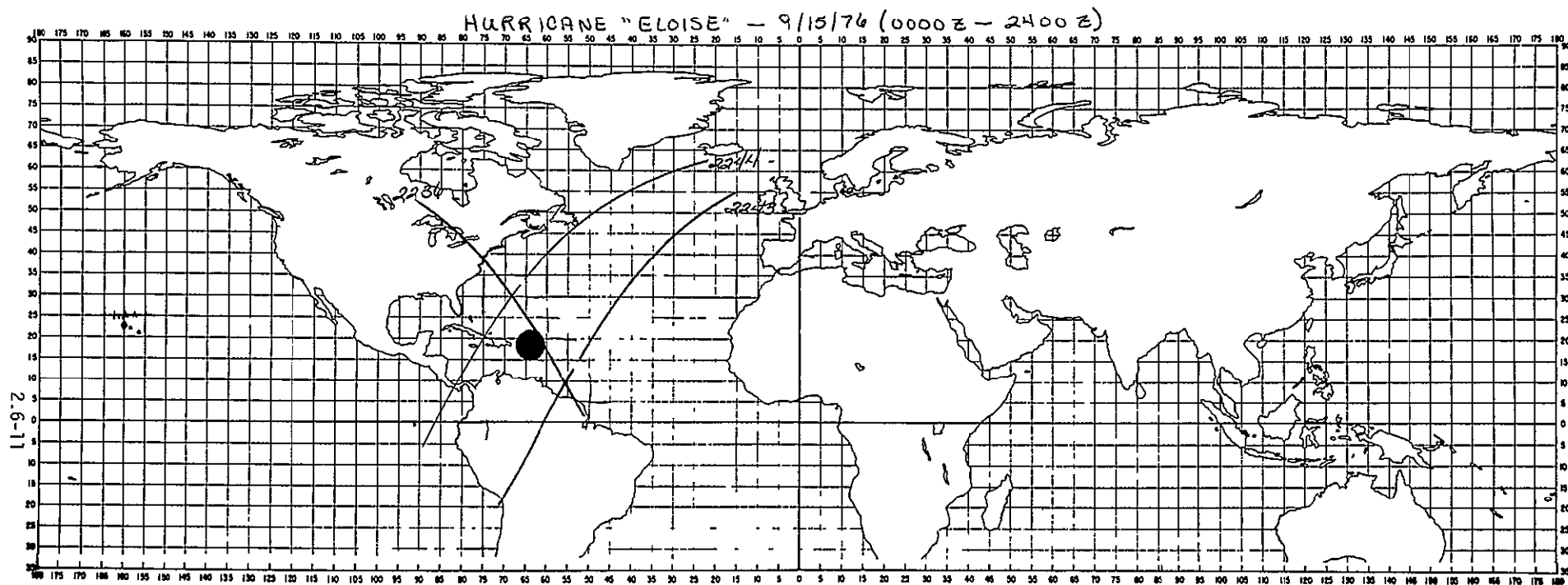
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Made/Uniq# |
|-------|------------------|--------------------------|-----------------|---------|--------|------------|
| 2208 | - 62.14 | 01 00 12 | 0103Z | 010.531 | 011008 | 802-465 |
| 2214 | +145.81 | 11 11 20 | 1159Z | No | | |
| 2215 | +120.49 | 12 53 07 | 1338Z | No | | |
| 2221 | - 31.45 | 23 03 19 | 2311Z | No | | |
| --- | --- | --- | --- | --- | --- | --- |
| --- | --- | --- | --- | --- | --- | --- |



LOCATION
TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 17.8N | 57.3W |
| 0600Z | 17.9 | 58.3 |
| 1200Z | 18.0 | 59.4 |
| 1800Z | 18.1 | 60.5 |
| 2400Z | 18.3 | 61.7 |
| — | — | — |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 22222 | - 56.77 | 00 45 36 | 0050Z | 005355 | 005509 | 802 | 4/75 |
| 22229 | +125.96 | 12 38 06 | 1324Z | No | | | |
| 22330 | +100.64 | 14 19 53 | 1502Z | 145611 | 150641 | 802 | 4/78 |
| 22335 | - 25.97 | 22 43 48 | 2254Z | No | | | |
| | | | | | | | |
| | | | | | | | |

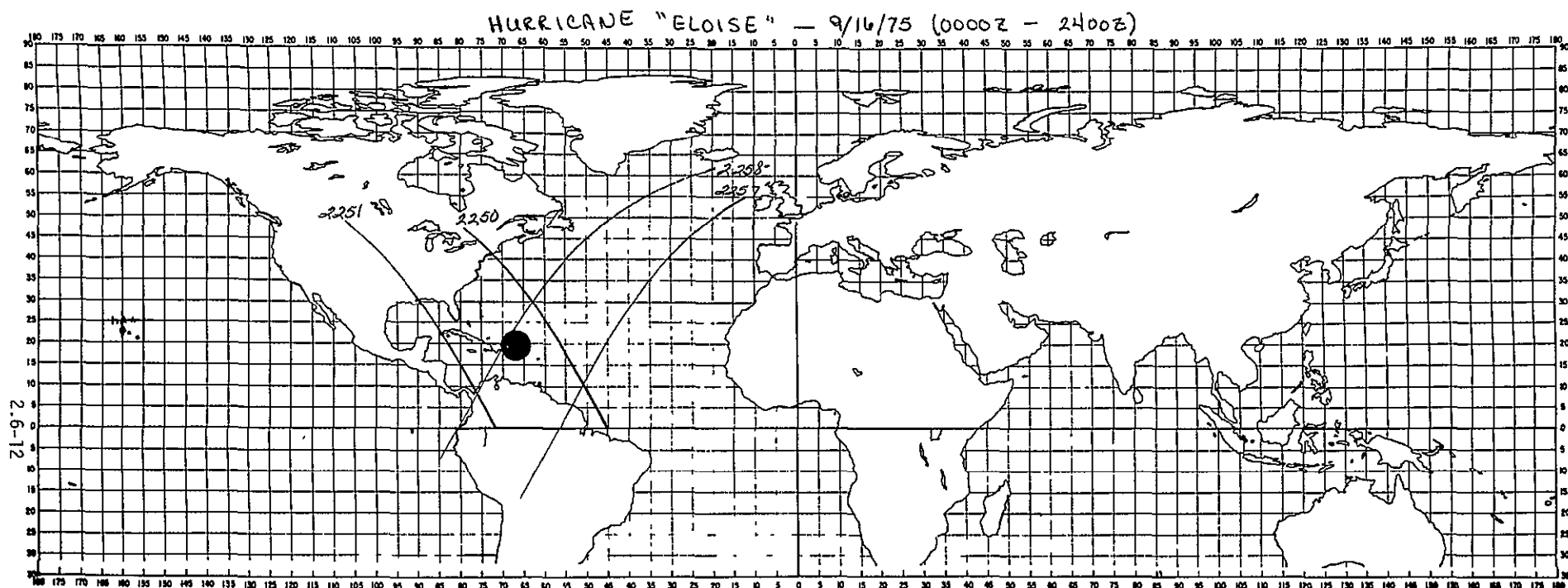


LOCATION

TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 18.3N | 61.7W |
| 0600Z | 18.5 | 62.8 |
| 1200Z | 18.8 | 63.8 |
| 1800Z | 18.9 | 64.8 |
| 2400Z | 19.0 | 65.6 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2236 | - 51.30 | 00 30 35 | 0036Z | 003851 | 004621 | 802 | 482 |
| 2243 | +131 1/4 | 12 23 05 | 1310Z | No | | | |
| 2244 | +106 12 | 14 01 52 | 1448Z | 144229 | 145038 | 802 | 486 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

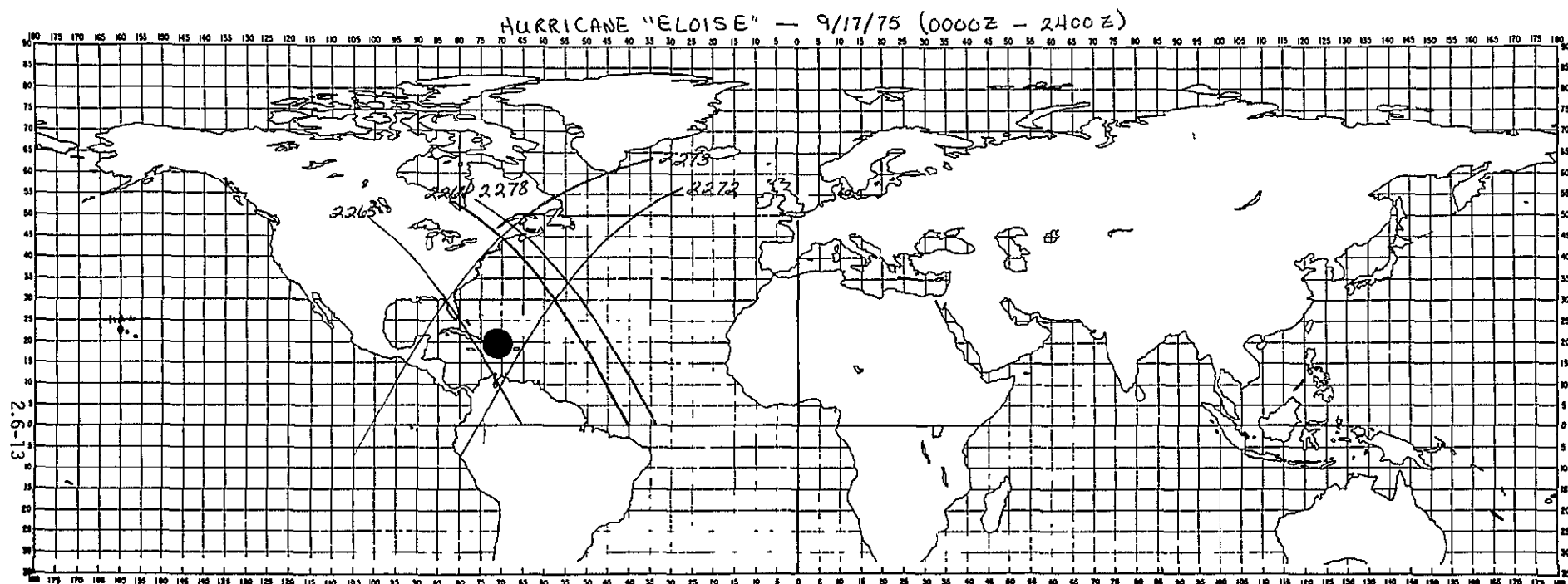


LOCATION

TROPICAL STORM/HURRICANE (1800)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 19.0N | 65.6W |
| 0600Z | 19.2 | 66.7 |
| 1200Z | 19.4 | 67.5 |
| 1800Z | 19.5 | 68.4 |
| 2100Z | 19.6 | 69.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|----|-----|------|-------|
| 2250 | - 45.83 | 00 15.33 | 0022Z | No | | | |
| 2251 | - 71.15 | 01 57.32 | 0200Z | No | | | |
| 2257 | +136.91 | 12 08.04 | 1256Z | No | | | |
| 2258 | +111.59 | 13 49.51 | 1435Z | No | | | |
| | | | | | | | |
| | | | | | | | |

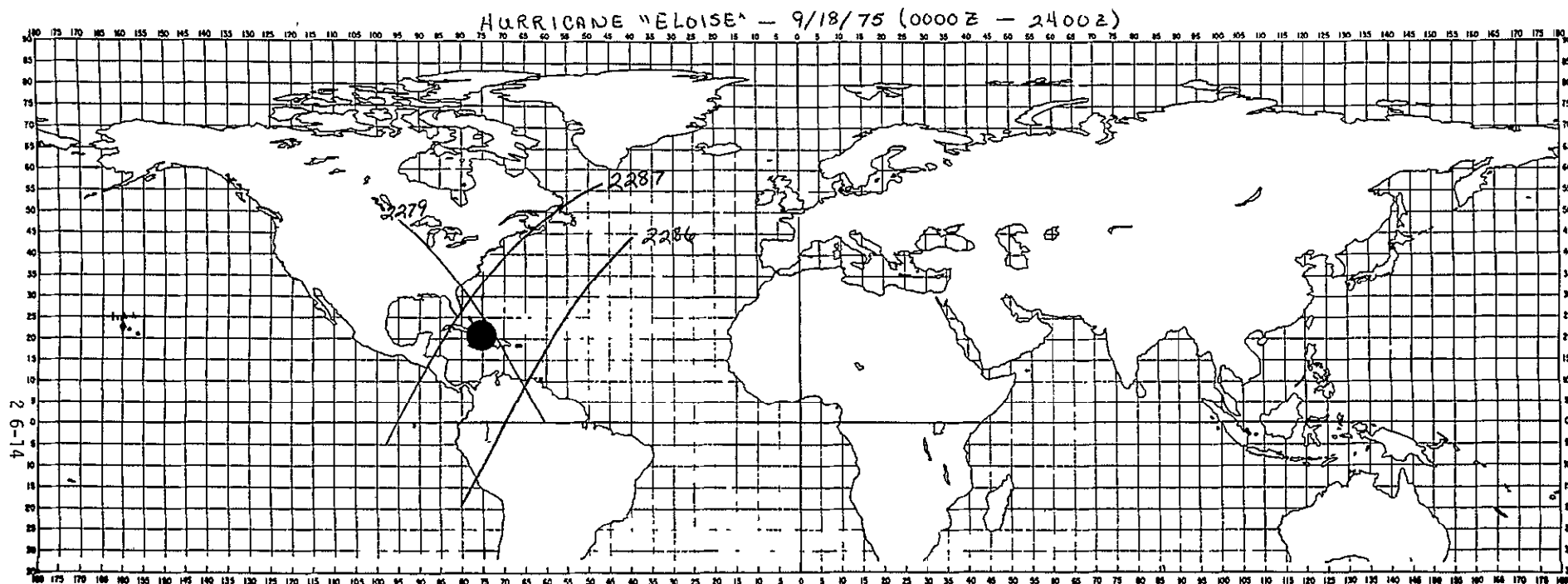


LOCATION

HURRICANE/TROPICAL STORM (0600)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 19.6N | 73.2W |
| 0600Z | 19.7 | 70.2 |
| 1200Z | 19.7 | 71.2 |
| 1800Z | 19.8 | 72.2 |
| 2400Z | 19.9 | 73.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2264 | - 40.35 | 00 00 34 | 0009Z | 001117 | 001432 | 802 | 502 |
| 2265 | - 65.67 | 01 42 21 | 0147Z | 014756 | 015019 | 802 | 504 |
| 2272 | + 117.06 | 13 34 51 | 1421Z | No | | | |
| 2273 | + 91.74 | 15 16 58 | 1600Z | 154803 | 160020 | 802 | 509 |
| 2278 | - 34.87 | 23 45 33 | 2355Z | No | | | |

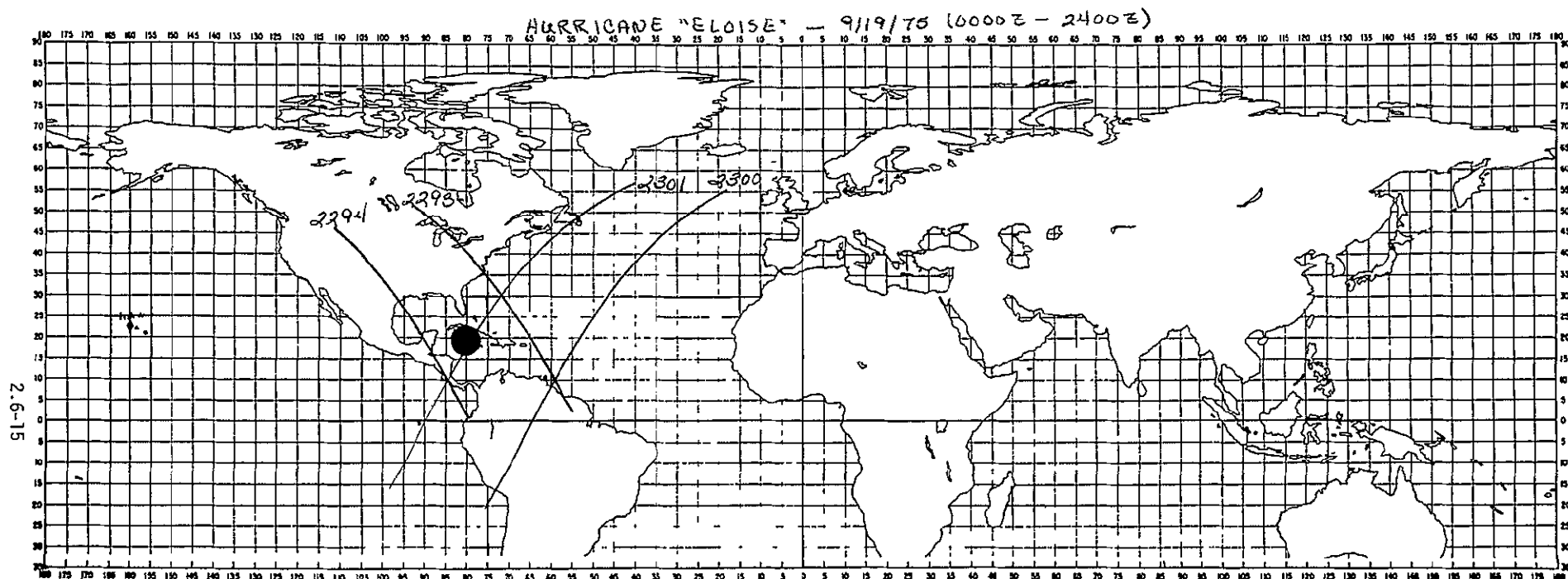


LOCATION

TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 19.9N | 73.3W |
| 0600Z | 19.9 | 74.5 |
| 1200Z | 19.9 | 75.7 |
| 1800Z | 20.0 | 77.0 |
| 2400Z | 20.0 | 78.2 |
| --- | --- | --- |

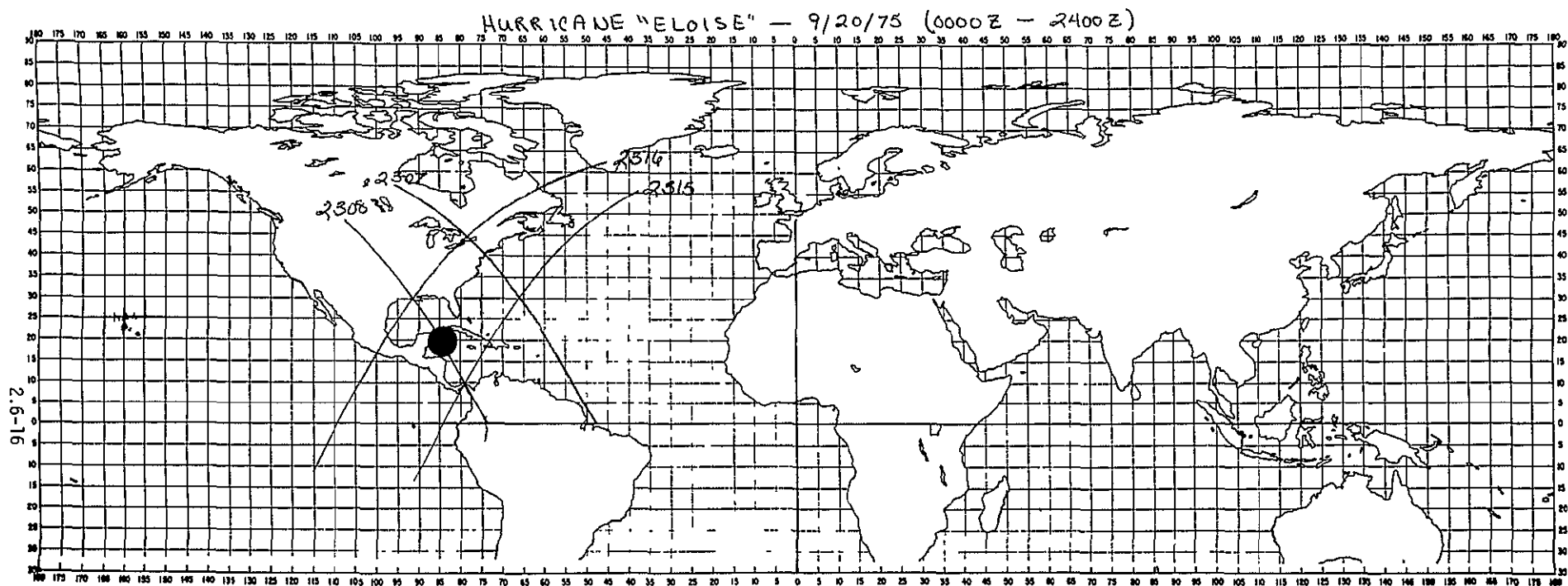
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Node | Uniq # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2279 | - 60.20 | 01 27 20 | 0133Z | No | | | |
| 2286 | + 122.54 | 13 19 30 | 1407Z | No | | | |
| 2287 | + 97.32 | 15 01 37 | 1545Z | 154600 | 155422 | 802 | 522 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



LOCATION
TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.0N | 78.2W |
| 0600Z | 19.9 | 79.1 |
| 1200Z | 19.9 | 79.8 |
| 1800Z | 19.8 | 81.0 |
| 2400Z | 19.8 | 82.2 |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Model | Unique |
|-------|------------------|--------------------------|-----------------|--------|--------|-------|--------|
| 2293 | - 54 73 | 01 13 20 | 0120Z | No | | | |
| 2294 | - 80 05 | 02 54 07 | 0259Z | No | | | |
| 2300 | +128 01 | 13 04 49 | 1353Z | No | | | |
| 2301 | +102 69 | 14 46 36 | 1532Z | 151125 | 154128 | 802 | 532 |
| | | | | | | | |
| | | | | | | | |

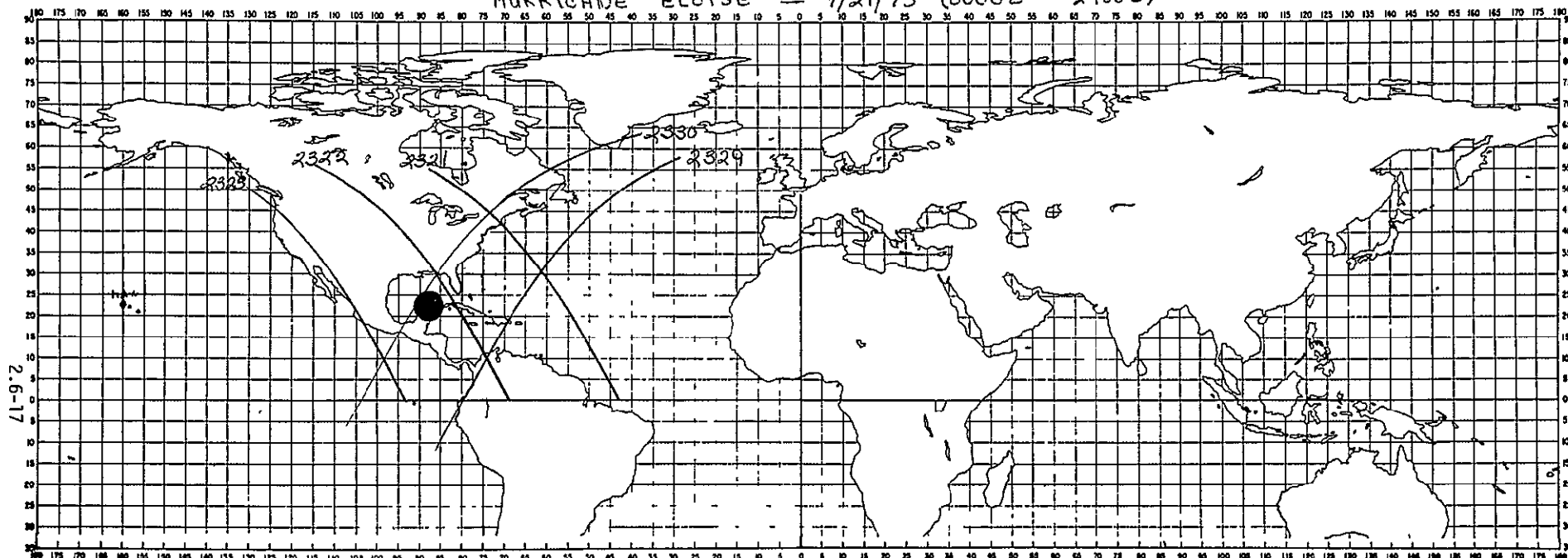


LOCATION
TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 19.8N | 82.2W |
| 0600Z | 19.8 | 83.4 |
| 1200Z | 19.9 | 84.6 |
| 1800Z | 20.0 | 85.5 |
| 2400Z | 20.2 | 86.4 |
| — | — | — |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2307 | - 49 25 | 00 57 19 | 0107 E | 010605 | 010947 | 802 | 538 |
| 2308 | - 74 57 | 02 39 06 | 0215 E | 021324 | 021625 | 802 | 539 |
| 2315 | + 108 14 | 14 31 36 | 1518 E | 151627 | 151631 | 802 | 543 |
| 2316 | + 82 81 | 16 13 33 | 1656 E | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE 'ELOISE' - 9/21/75 (0000Z - 2400Z)



2.6-17

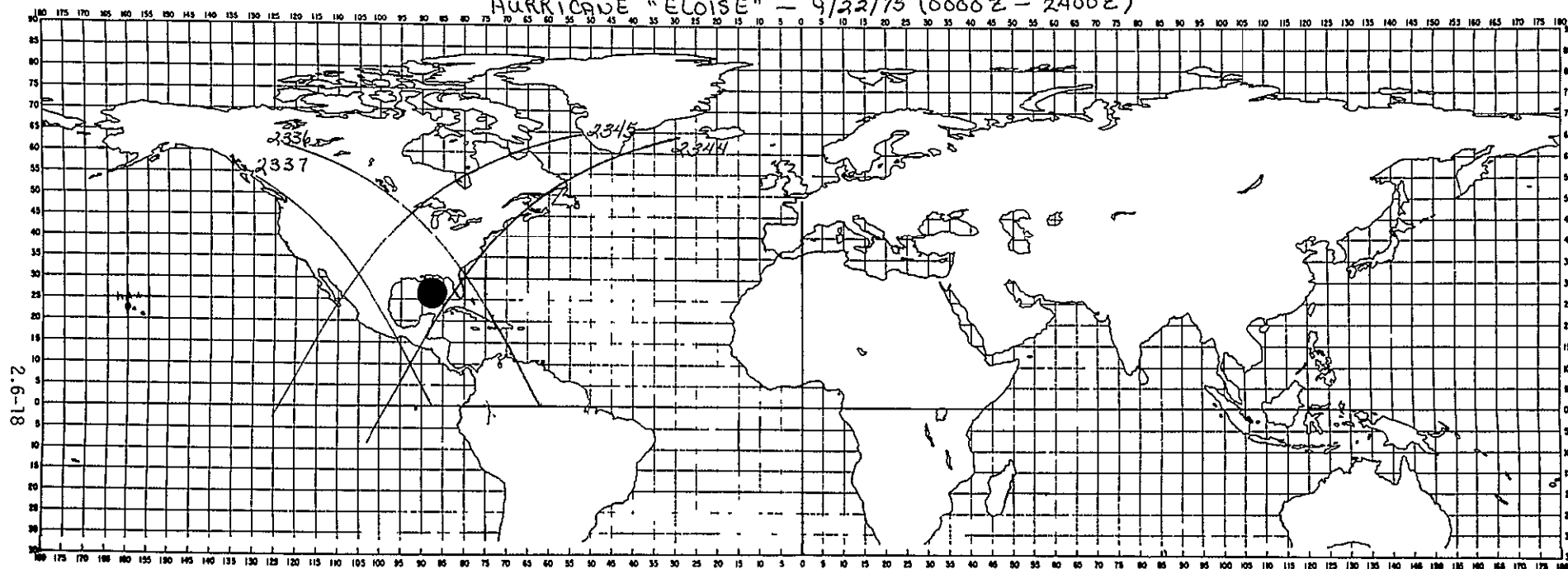
LOCATION

TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.2N | 86.4W |
| 0600Z | 20.8 | 87.1 |
| 1200Z | 21.4 | 87.8 |
| 1800Z | 22.4 | 88.5 |
| 2400Z | 23.6 | 88.9 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2321 | -43.73 | 00 12 18 | 0047Z | 005221 | 005533 | 802 | 552 |
| 2322 | -69.10 | 02 24 05 | 0231Z | No | | | |
| 2323 | -94.42 | 04 05 52 | 0409Z | No | | | |
| 2329 | +113.64 | 11 16 35 | 1504Z | No | | | |
| 2330 | +88.31 | 15 52 22 | 1636Z | No | | | |

HURRICANE "ELOISE" - 9/22/75 (0000Z - 2400Z)

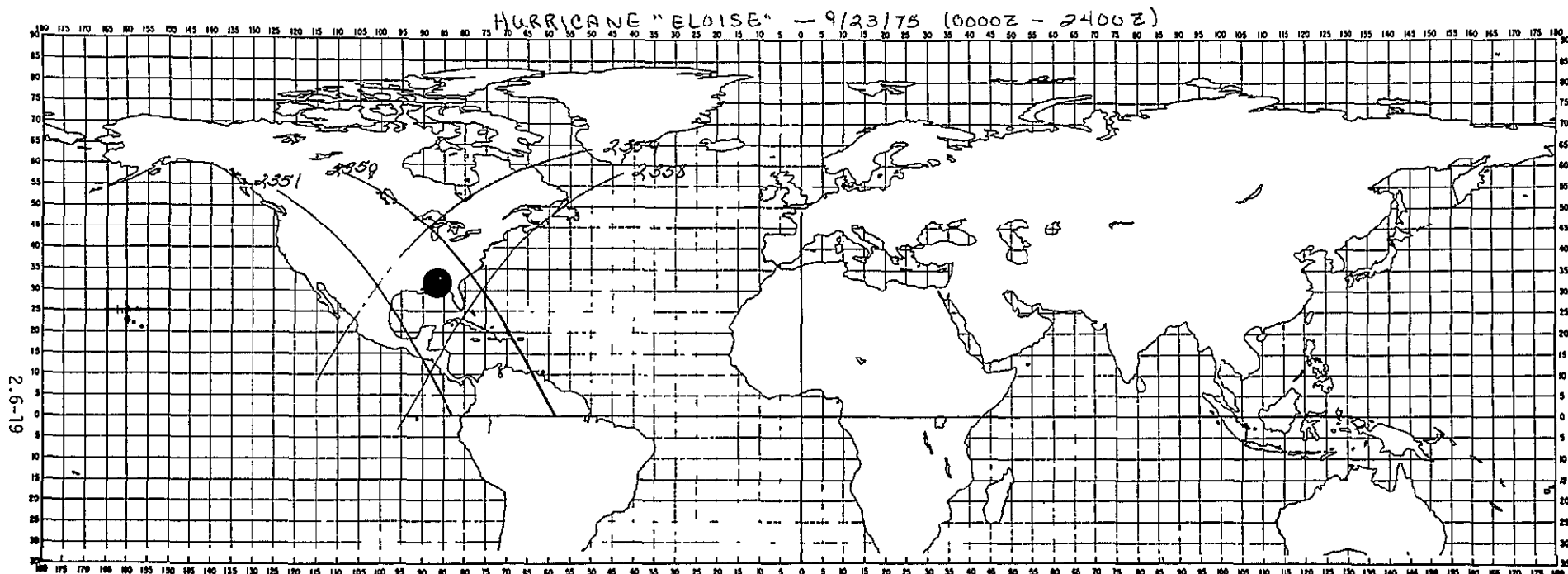


LOCATION

TROPICAL STORM/HURRICANE (0600Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 23.6N | 88.9W |
| 0600Z | 24.8 | 89.4 |
| 1200Z | 25.8 | 89.5 |
| 1800Z | 26.5 | 89.4 |
| 2400Z | 27.3 | 88.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2336 | - 63.62 | 02 09 04 | 0218Z | 021501 | 021827 | 802 | 3 |
| 2337 | - 88.95 | 03 50 51 | 0356Z | No | | | |
| 2344 | + 93.79 | 15 43 21 | 1626Z | 161604 | 162900 | 802 | 12 |
| 2345 | + 68.47 | 17 35 02 | 1805Z | No | | | |
| | | | | | | | |
| | | | | | | | |



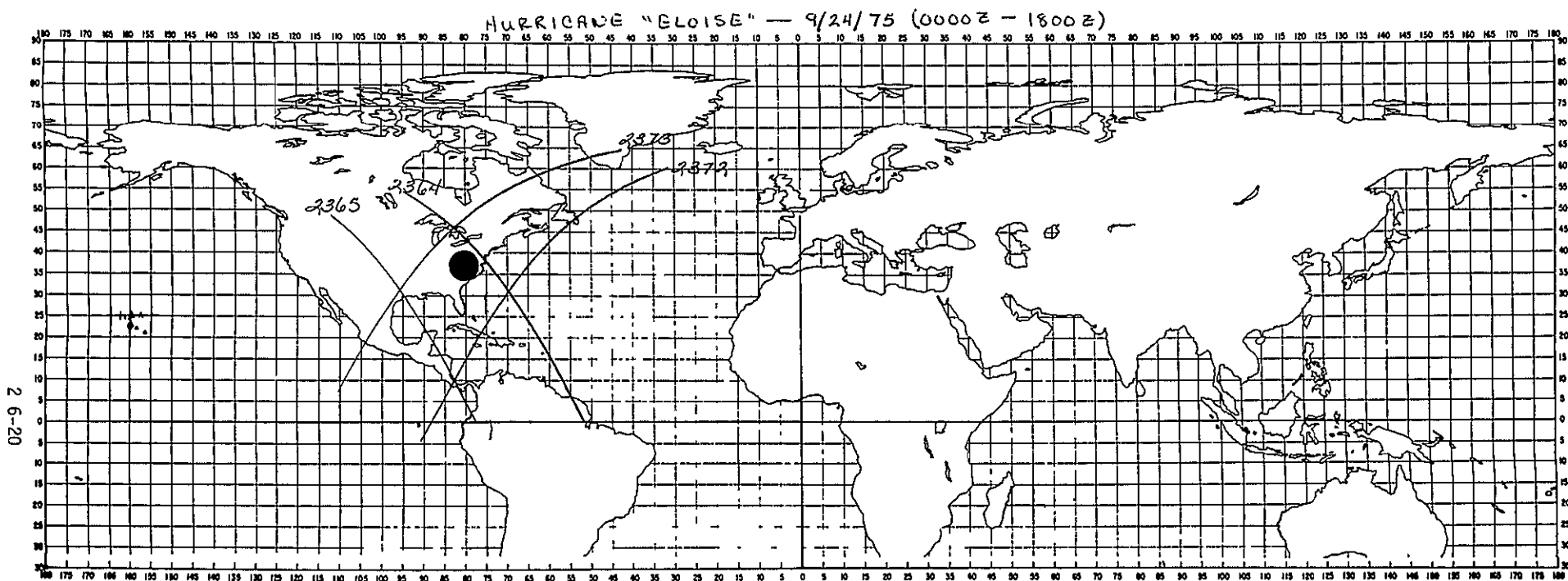
LOCATION

HURRICANE/TROPICAL STORM (1800Z)*

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 27.5N | 88.5W |
| 0600Z | 28.4 | 87.5 |
| 1200Z | 30.2* | 86.3* |
| 1800Z | 33.0 | 85.7 |
| 2400Z | 35.5 | 84.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2350 | - 58 15 | 01 54 04 | 0205Z | 020059 | 020442 | 802 | 22 |
| 2351 | - 83 18 | 03 33 51 | 0342Z | No | | | |
| 2358 | + 99 26 | 15 28 20 | 1611Z | 160351 | 161422 | 802 | 27 |
| 2359 | + 23 94 | 17 10 07 | 1749Z | No | | | |
| | | | | | | | |

* Landfall at 23/1215Z (30.4°N 86.2°W)



LOCATION

TROPICAL DEPRESSION/EXTRATROPICAL (0600Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 35.5N | 84.3W |
| 0600Z | 36.5 | 83.5 |
| 1200Z | 37.0 | 82.5 |
| 1800Z | 37.5 | 81.5 |
| — | — | — |
| — | — | — |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2364 | - 52.68 | 01 39 03 | 0151Z | No | | | |
| 2365 | - 78 00 | 03 20 50 | 0329Z | No | | | |
| 2372 | - 104 74 | 15 13 20 | 1555Z | 155049 | 155938 | 802 | 1/3 |
| 2373 | + 79 41 | 16 55 07 | 1733Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE FAYE

September 18 - 29, 1975

Meteorological History/Data

A tropical disturbance moved westward off the African coast on September 14th and during the next few days gradually developed the characteristics of a tropical depression. The center of the depression was first located by satellite pictures 500 miles off the Cape Verde Islands on September 18th.

On September 19th, satellite classification indicated that the system had attained winds of tropical storm strength and it was designated Faye. Tropical Storm Faye moved steadily westward until September 23rd when strong wind shear associated with an upper level trough began to weaken the storm's circulation and Faye was downgraded to a depression about 500 miles northeast of the Leeward Islands.

The depression turned northward temporarily on September 24th and began to move into a more favorable circulation pattern. Faye regained tropical storm status and then hurricane strength during the 25th and began a northwesterly movement that would continue until September 27th, with the center passing just east of Bermuda on the evening of September 26th.

Faye turned toward the north shortly after passing Bermuda and by the afternoon of September 27th came under the influence of strong westerly flow which dominated the North Atlantic north of latitude 40°N. Thereafter, Faye developed an east-northeast to east course with rapid acceleration. The storm gradually lost all tropical characteristics as it moved eastward at 40 knots some 200 miles north of the Azores.

Damage Estimates

Damage to Bermuda was minor since the island remained on the weak side of the storm. Faye was not a severe hurricane with reconnaissance aircraft indicating the highest winds were 90 knots and lowest pressure 977 mb.

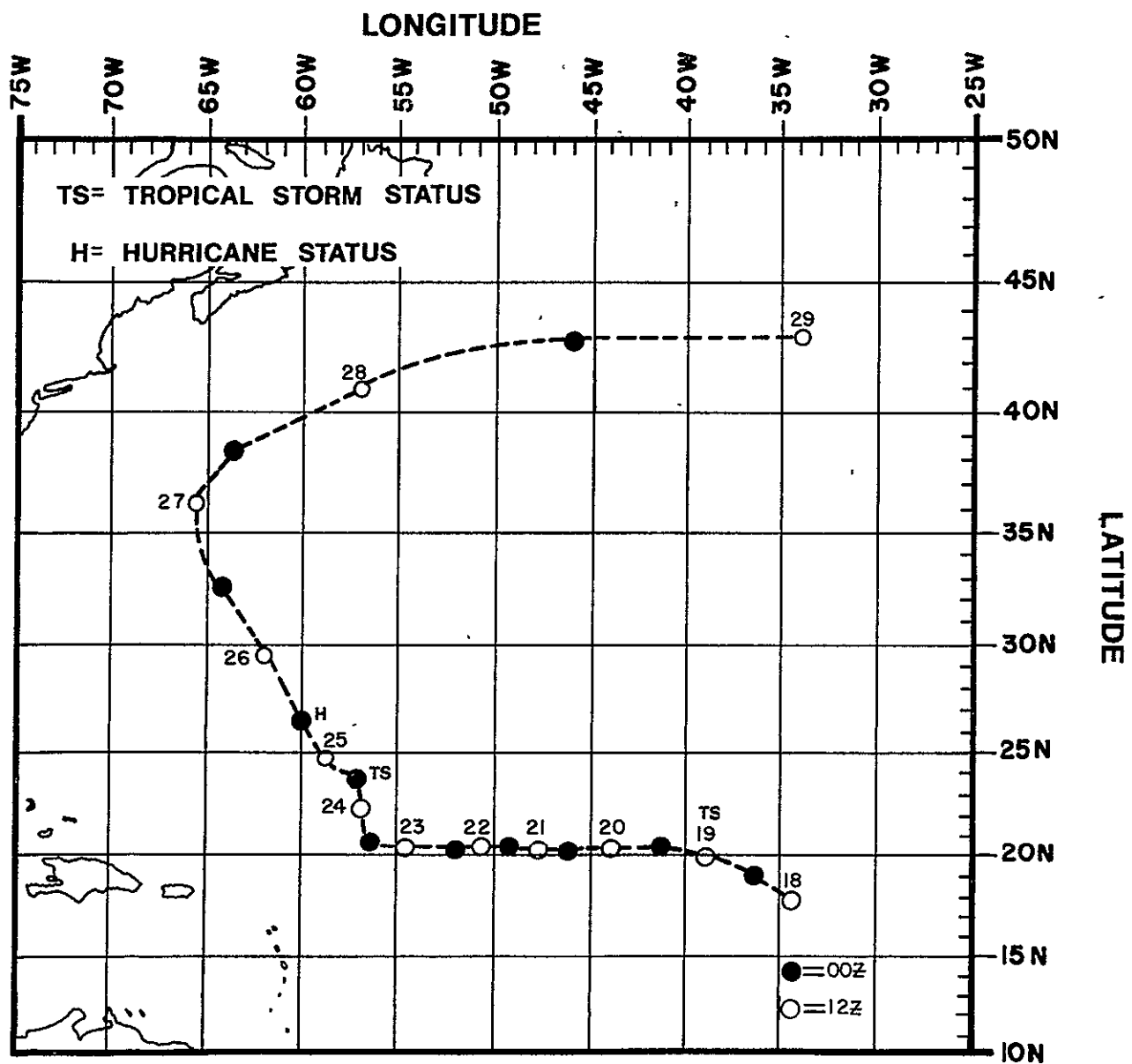


FIGURE 6. PRELIMINARY BEST TRACK FOR HURRICANE FAYE

STORM: HURRICANE FAYE

DATE: SEPT 18 - SEPT 29, 1975

| Date | Time GMT | Position | | Pressure* (MB) | Wind (KTS) | Stage |
|------|----------|----------|-----------|----------------|------------|---------------------------------------|
| | | Latitude | Longitude | | | |
| 9/18 | 0600Z | 17.5N | 33.5W | ---- | 25 | Tropical Depression |
| | 1200Z | 17.8 | 34.4 | ---- | 25 | |
| | 1800Z | 18.3 | 35.3 | ---- | 25 | |
| 9/19 | 0000Z | 19.0N | 36.4W | ---- | 25 | Tropical Depression |
| | 0600Z | 19.6 | 37.6 | ---- | 30 | Tropical Storm |
| | 1200Z | 20.0 | 39.0 | ---- | 35 | |
| | 1800Z | 20.4 | 40.2 | ---- | 40 | |
| 9/20 | 0000Z | 20.5N | 41.3W | ---- | 40 | Tropical Storm |
| | 0600Z | 20.5 | 42.7 | ---- | 40 | |
| | 1200Z | 20.3 | 44.0 | ---- | 40 | |
| | 1800Z | 20.2 | 45.3 | ---- | 40 | |
| 9/21 | 0000Z | 20.3N | 46.2W | ---- | 40 | Tropical Storm |
| | 0600Z | 20.3 | 47.0 | ---- | 40 | |
| | 1200Z | 20.3 | 47.8 | ---- | 40 | |
| | 1800Z | 20.4 | 48.5 | ---- | 35 | |
| 9/22 | 0000Z | 20.5N | 49.3W | ---- | 40 | Tropical Storm |
| | 0600Z | 20.5 | 50.0 | ---- | 40 | |
| | 1200Z | 20.4 | 50.8 | ---- | 40 | |
| | 1800Z | 20.4 | 51.5 | ---- | 40 | |
| 9/23 | 0000Z | 20.4N | 52.2W | ---- | 40 | Tropical Depression |
| | 0600Z | 20.3 | 53.4 | ---- | 40 | |
| | 1200Z | 20.4 | 54.6 | ---- | 30 | |
| | 1800Z | 20.6 | 55.8 | ---- | 30 | |
| 9/24 | 0000Z | 20.8N | 56.5W | ---- | 30 | Tropical Depression |
| | 0600Z | 21.5 | 57.1 | ---- | 25 | |
| | 1200Z | 22.4 | 57.0 | ---- | 25 | |
| | 1800Z | 23.0 | 56.9 | 1005 | 25 | |
| 9/25 | 0000Z | 23.8N | 57.2W | ---- | 30 | Tropical Depression Tropical Storm |
| | 0600Z | 24.2 | 58.1 | ---- | 35 | |
| | 1200Z | 24.8 | 58.8 | 999 | 45 | |
| | 1800Z | 25.5 | 59.4 | 993 | 60 | |

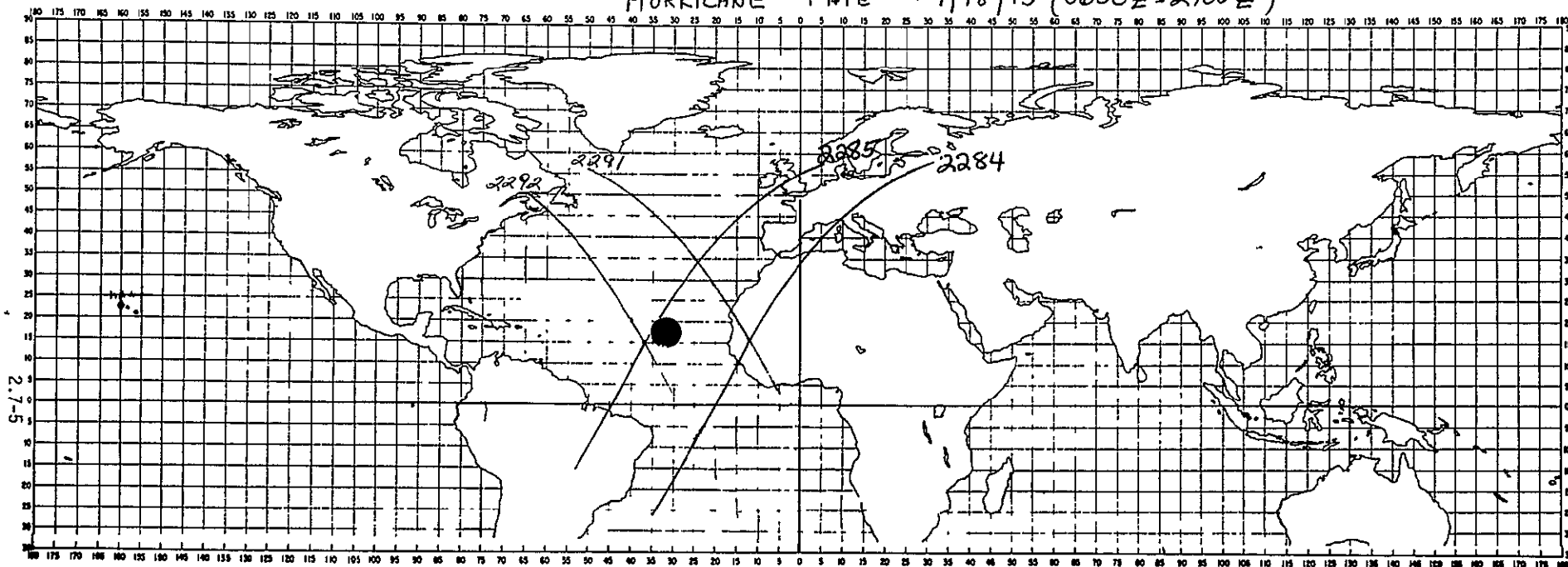
*Lowest Pressure

STORM: --HURRICANE FAYE (CONT.)

DATE: --SEPT 18 - SEPT 29, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------|
| | | Latitude | Longitude | | | |
| 9/26 | 0000Z | 26.5N | 60.0W | 990 | 65 | Hurricane |
| | 0600Z | 27.9 | 60.9 | 988 | 70 | |
| | 1200Z | 29.6 | 62.0 | 985 | 75 | |
| | 1800Z | 31.0 | 63.1 | ---- | 85 | |
| 9/27 | 0000Z | 32.7N | 64.2W | ---- | 90 | Hurricane |
| | 0600Z | 34.4 | 65.2 | 979 | -- | |
| | 1200Z | 36.1 | 65.7 | 982 | -- | |
| | 1800Z | 37.4 | 65.0 | 985 | -- | |
| 9/28 | 0000Z | 38.4N | 63.7W | ---- | 85 | Hurricane |
| | 0600Z | 39.8 | 60.5 | ---- | 80 | |
| | 1200Z | 41.0 | 57.1 | 979 | 75 | |
| | 1800Z | 42.3 | 52.0 | 977 | -- | |
| 9/29 | 0000Z | 42.8N | 46.0W | ---- | 70 | Hurricane |
| | 0600Z | 42.9 | 40.0 | ---- | -- | |
| | 1200Z | 43.0 | 34.0 | ---- | 60 | Extratropical |

HURRICANE "FAYE" - 9/18/75 (0600Z - 2400Z)

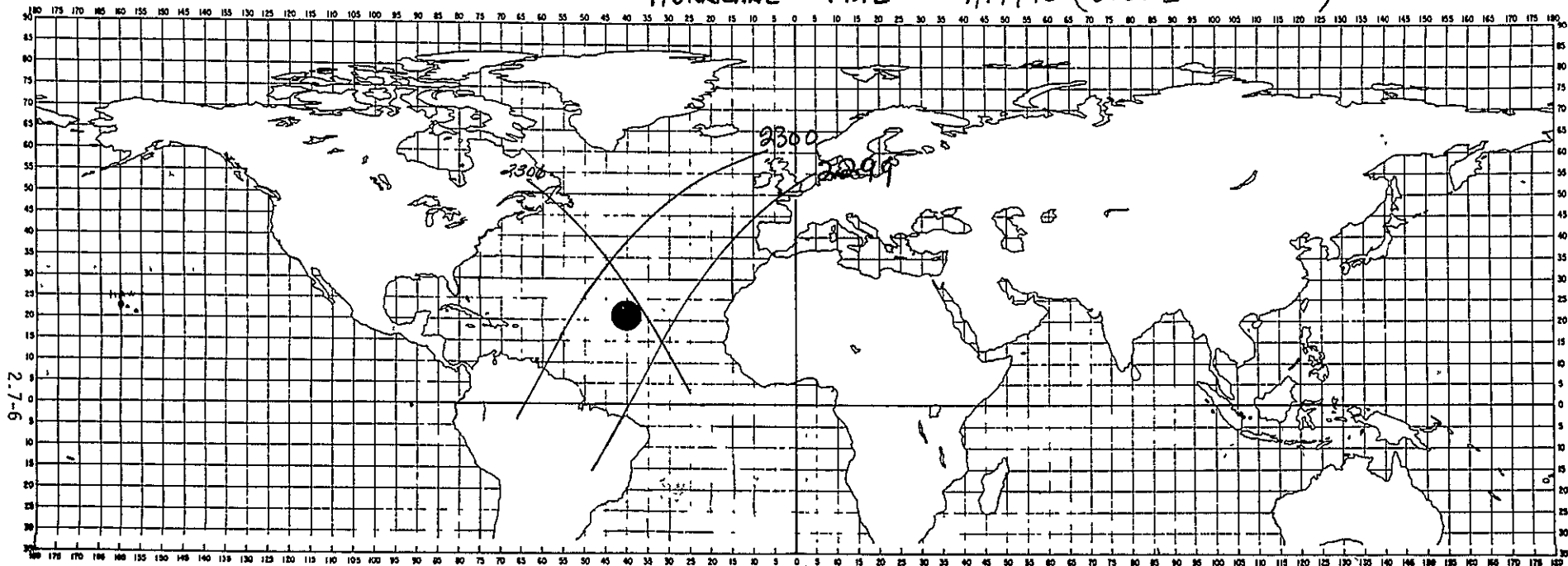


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0600Z | 17.5N | 33.5W |
| 1200Z | 17.8 | 34.4 |
| 1800Z | 18.3 | 35.3 |
| 2400Z | 19.0 | 36.4 |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq. |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2284 | +173.19 | 09 56 15 | 1044Z | No | | | |
| 2285 | +147.85 | 11 38 03 | 1223Z | 121612 | 122052 | 802 | 520 |
| 2291 | -4.07 | 21 48 45 | 2156Z | No | | | |
| 2292 | -29.39 | 23 30 32 | 2335Z | No | | | |
| | | | | | | | |
| | | | | | | | |

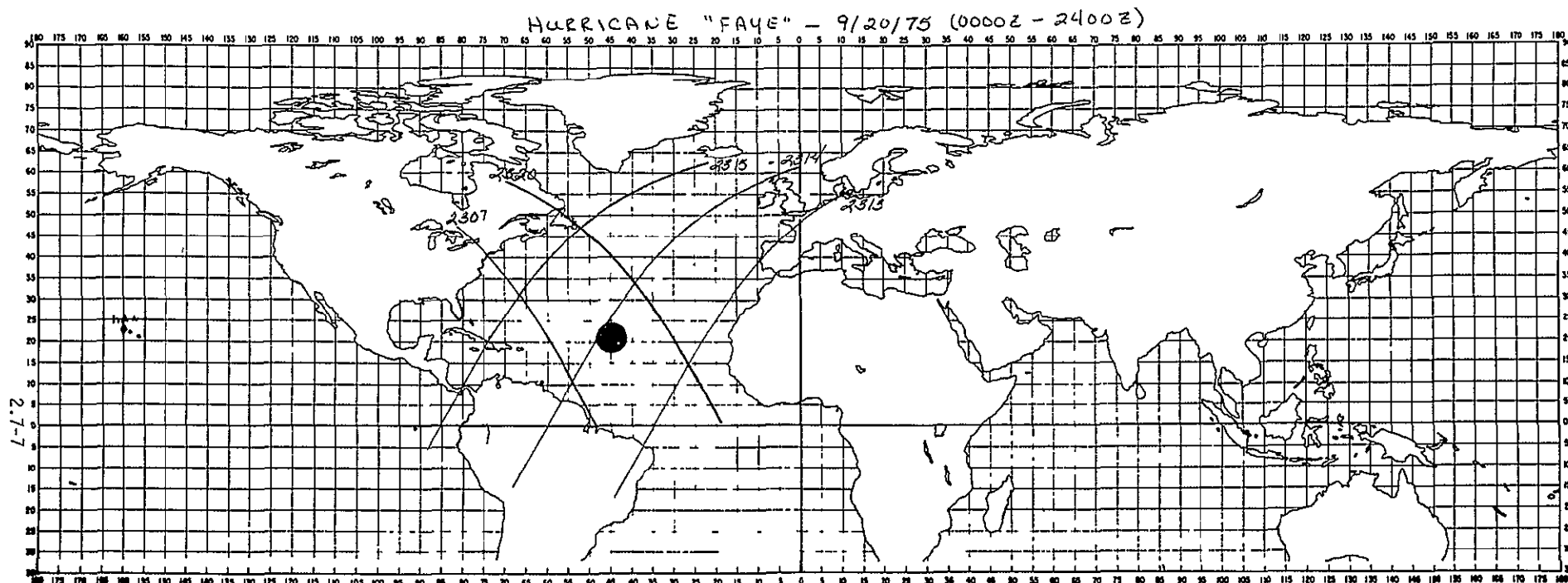
HURRICANE "FAYE" - 9/19/75 (0000Z - 2400Z)



TROPICAL DEPRESSION / LOCATION
TROPICAL STORM (1200Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 19.0N | 36.4W |
| 0600Z | 19.6 | 37.6 |
| 1200Z | 20.0 | 39.0 |
| 1800Z | 20.4 | 40.2 |
| 2400Z | 20.5 | 41.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unq. # |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2299 | + 153.34 | 11 23 02 | 1209 Z | No | | | |
| 2300 | + 128.01 | 13 04 49 | 1348 Z | No | | | |
| 2306 | - 23.93 | 23 15 31 | 2323 Z | No | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



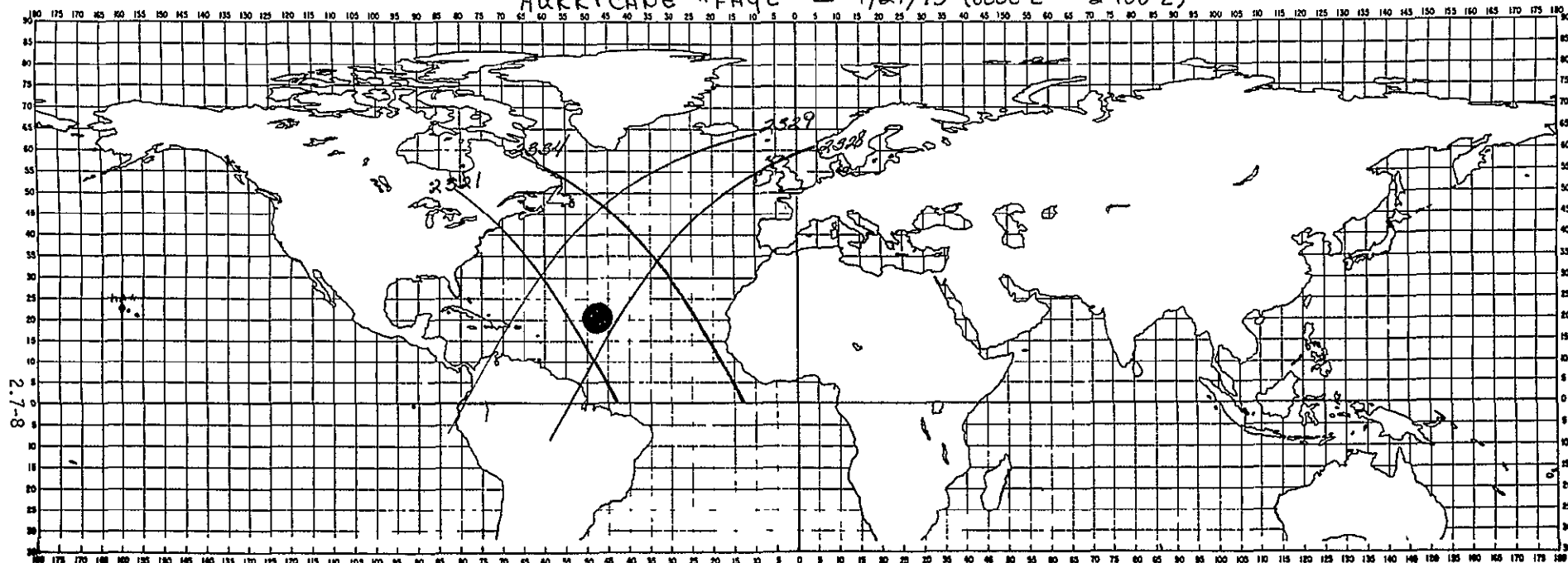
LOCATION

TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.5N | 46.3W |
| 0600Z | 20.5 | 42.7 |
| 1200Z | 20.3 | 44.0 |
| 1800Z | 20.2 | 45.3 |
| 2400Z | 20.3 | 46.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unig.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2307 | - 19 25 | 00 57 18 | 0101E | 010605 | 010947 | 802 | 538 |
| 2313 | + 158 81 | 11 08 01 | 1155Z | No | | | |
| 2314 | + 133 49 | 12 49 48 | 1334E | No | | | |
| 2315 | + 108 16 | 14 31 36 | 1518Z | 151627 | 151631 | 802 | 543 |
| 2320 | - 18 45 | 23 00 31 | 2329Z | 232942 | 233146 | 802 | 551 |

HURRICANE "FAYE" - 9/21/75 (0000Z - 2400Z)

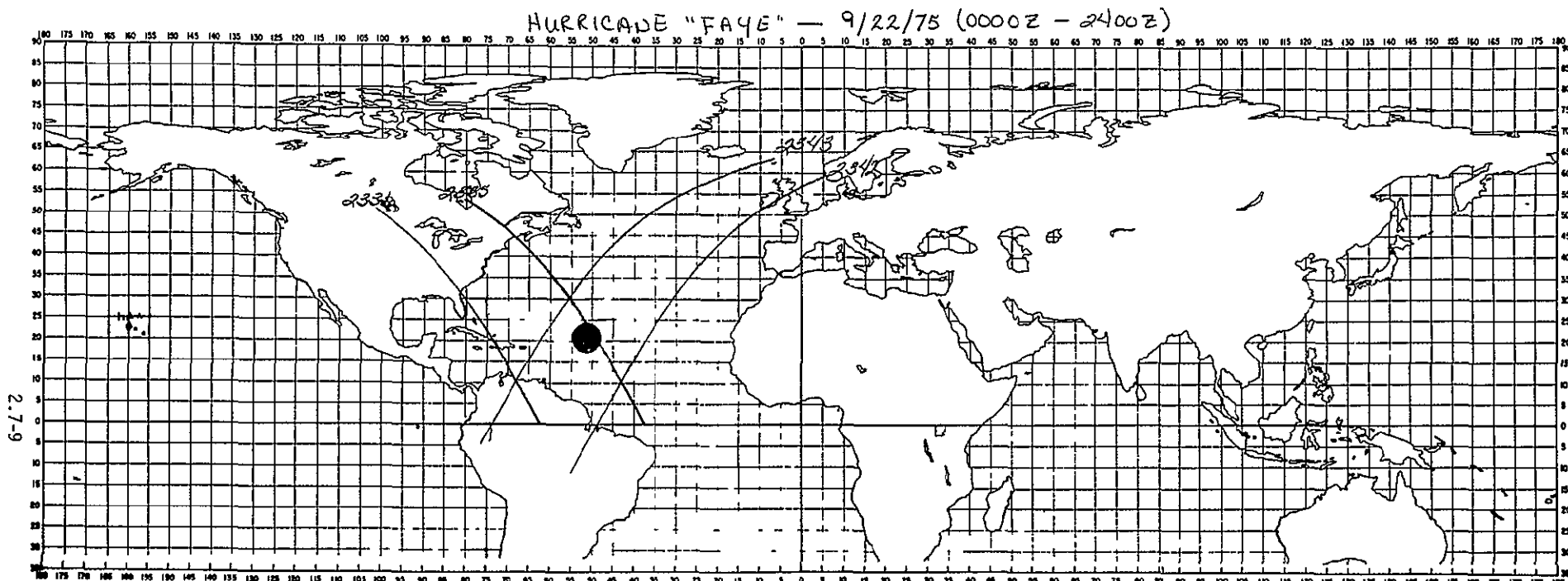


LOCATION

TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.3N | 116.2W |
| 0600Z | 20.3 | 117.0 |
| 1200Z | 20.3 | 117.8 |
| 1800Z | 20.4 | 118.5 |
| 2400Z | 20.5 | 116.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Made | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2321 | - 43 73 | 00 42 18 | 0047E | 005221 | 005533 | 802 | 552 |
| 2328 | + 138.96 | 12 34 47 | 1320Z | No | | | |
| 2329 | + 113.64 | 14 16 34 | 1459Z | No | | | |
| 2334 | - 12 93 | 22 45 30 | 2255E | No | | | |
| | | | | | | | |
| | | | | | | | |

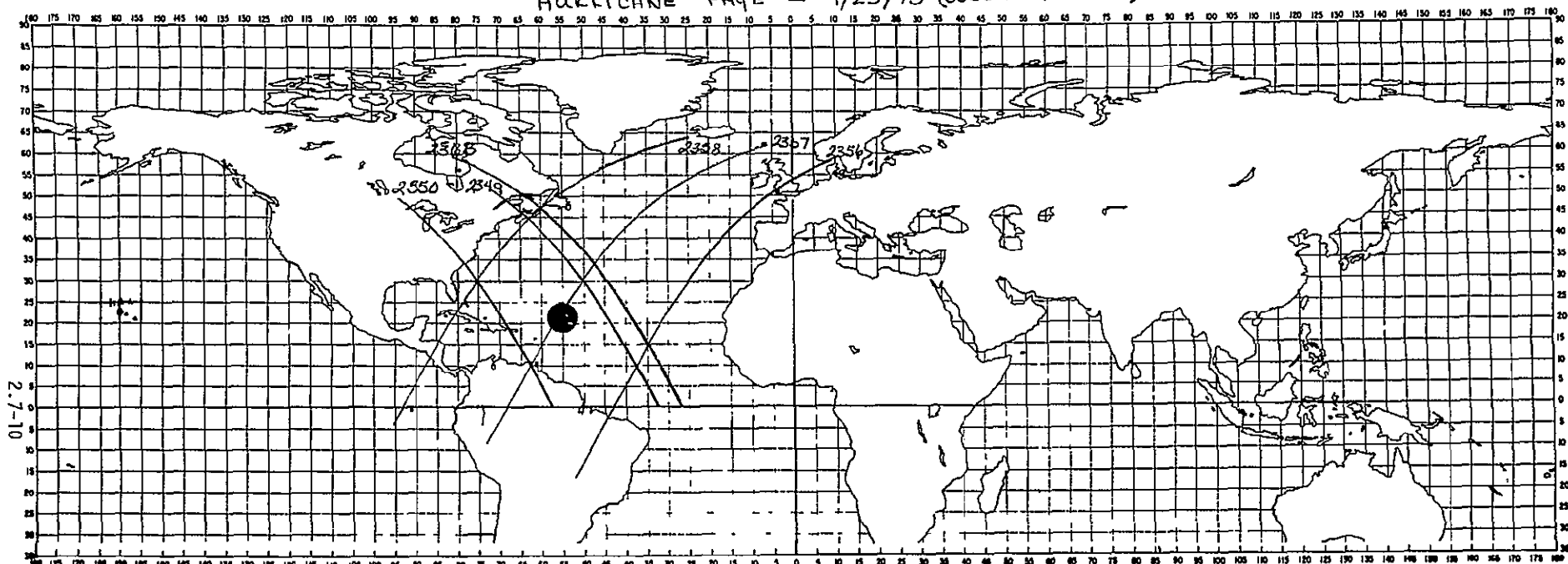


LOCATION
TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 2000Z | 20.5N | 119.3W |
| 0600Z | 20.5 | 50.0 |
| 1200Z | 20.4 | 50.8 |
| 1800Z | 20.4 | 51.5 |
| 2400Z | 20.4 | 52.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2335 | -38.30 | 00 27 17 | 0033Z | 003827 | 001130 | 802 | 1 |
| 2336 | -63.62 | 02 09 04 | 0218Z | 021501 | 021827 | 802 | 2 |
| 2342 | 114.43 | 12 19 17 | 1327Z | No | | | |
| 2343 | +119.11 | 14 01 34 | 1444Z | 143610 | 144914 | 802 | 11 |
| | | | | | | | |
| | | | | | | | |

HURRICANE "FAYE" - 9/23/75 (0000Z - 2400Z)



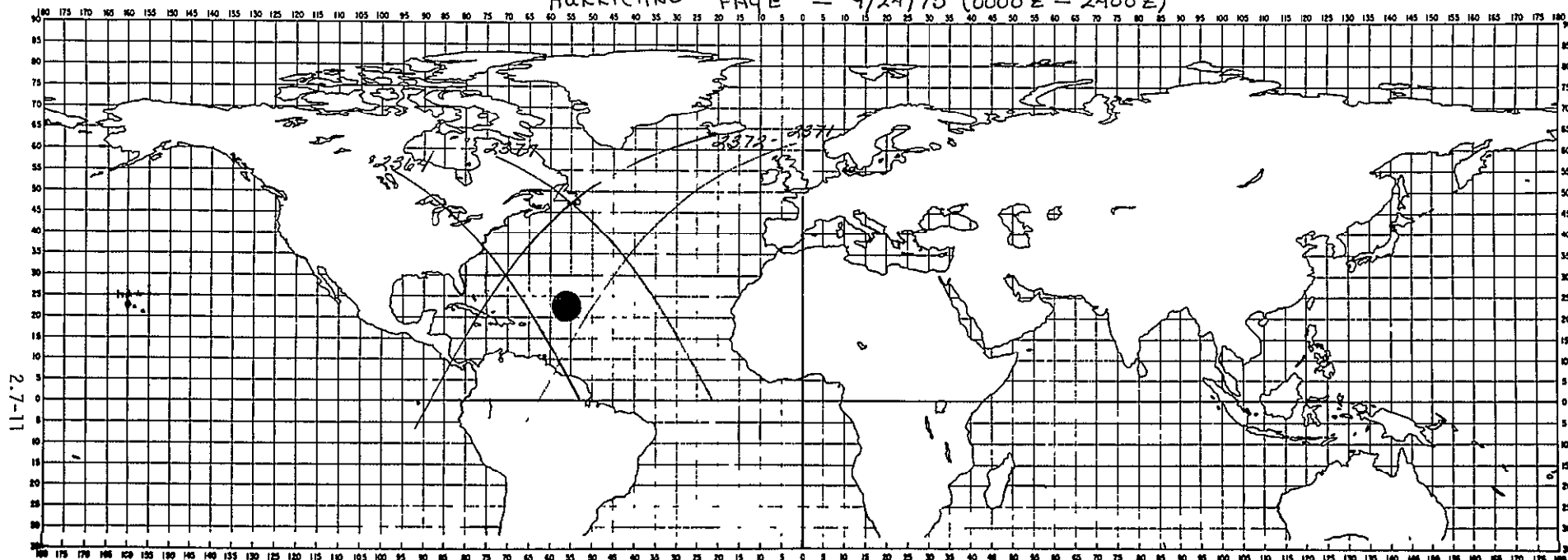
LOCATION

TROPICAL STORM/TROPICAL DEPRESSION (1200Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.4N | 52.2W |
| 0600Z | 20.3 | 53.1 |
| 1200Z | 20.4 | 51.6 |
| 1800Z | 20.6 | 55.8 |
| 2400Z | 20.8 | 56.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2349 | - 32.83 | 00 12 16 | 0020Z | 002120 | 002324 | 802 | 20 |
| 2350 | - 58.15 | 01 54 03 | 0158Z | No | | | |
| 2356 | +149.91 | 12 04 46 | 1251Z | No | | | |
| 2357 | +124.59 | 13 46 33 | 1330Z | No | | | |
| 2358 | + 99.26 | 15 28 20 | 1608Z | 160854 | 161422 | 802 | 27 |
| 2363 | - 27.35 | 23 57 15 | 0007Z (9/24) | No | | | |

HURRICANE "FAYE" - 9/24/75 (0000Z - 2400Z)



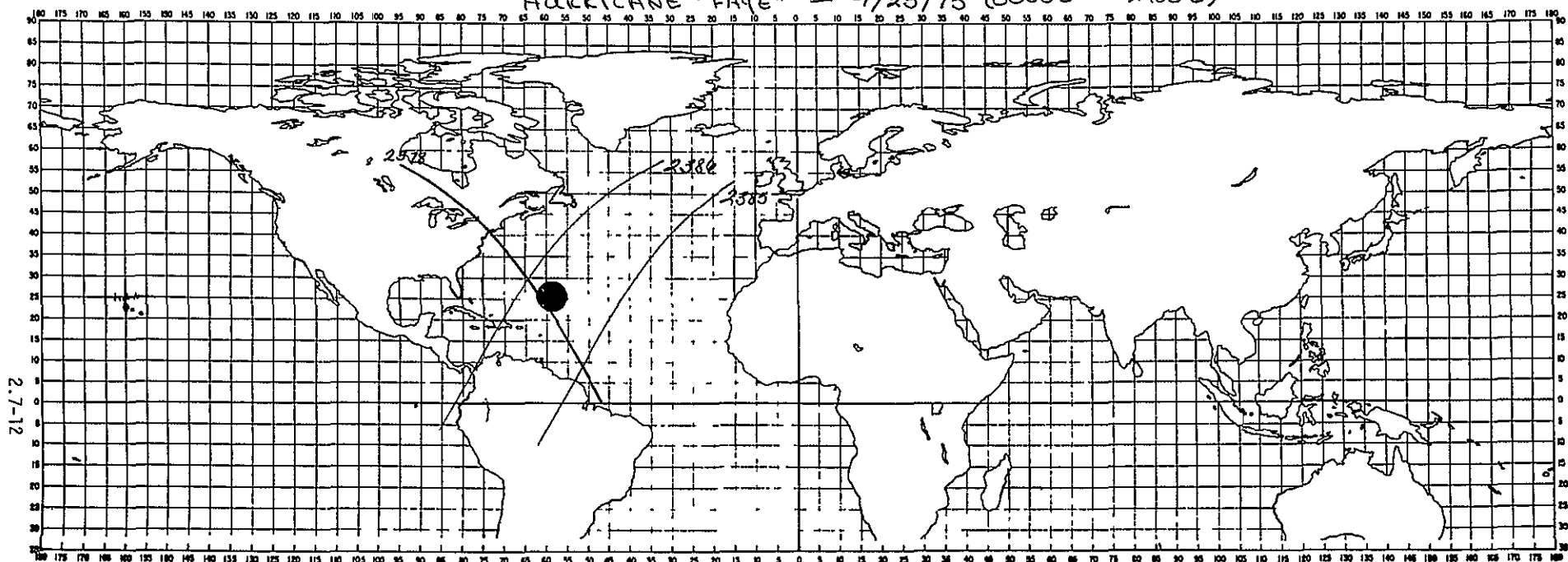
LOCATION

TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.8N | 56.5W |
| 0600Z | 21.5 | 57.1 |
| 1200Z | 22.4 | 57.0 |
| 1800Z | 23.0 | 56.9 |
| 2400Z | 23.8 | 57.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq # |
|-------|------------------|--------------------------|-----------------|---------|--------|------|--------|
| 2364 | -52.68 | 01 39 02 | 0144Z | No | | | |
| 2371 | +130.06 | 13 31 32 | 1417Z | No | | | |
| 2372 | +104.74 | 15 13 39 | 1554Z | 15504/9 | 155938 | 802 | 1/3 |
| 2377 | -21.88 | 23 42 15 | 2352Z | No | | | |
| | | | | | | | |

HURRICANE "FAYE" - 9/25/75 (0000Z - 2400Z)

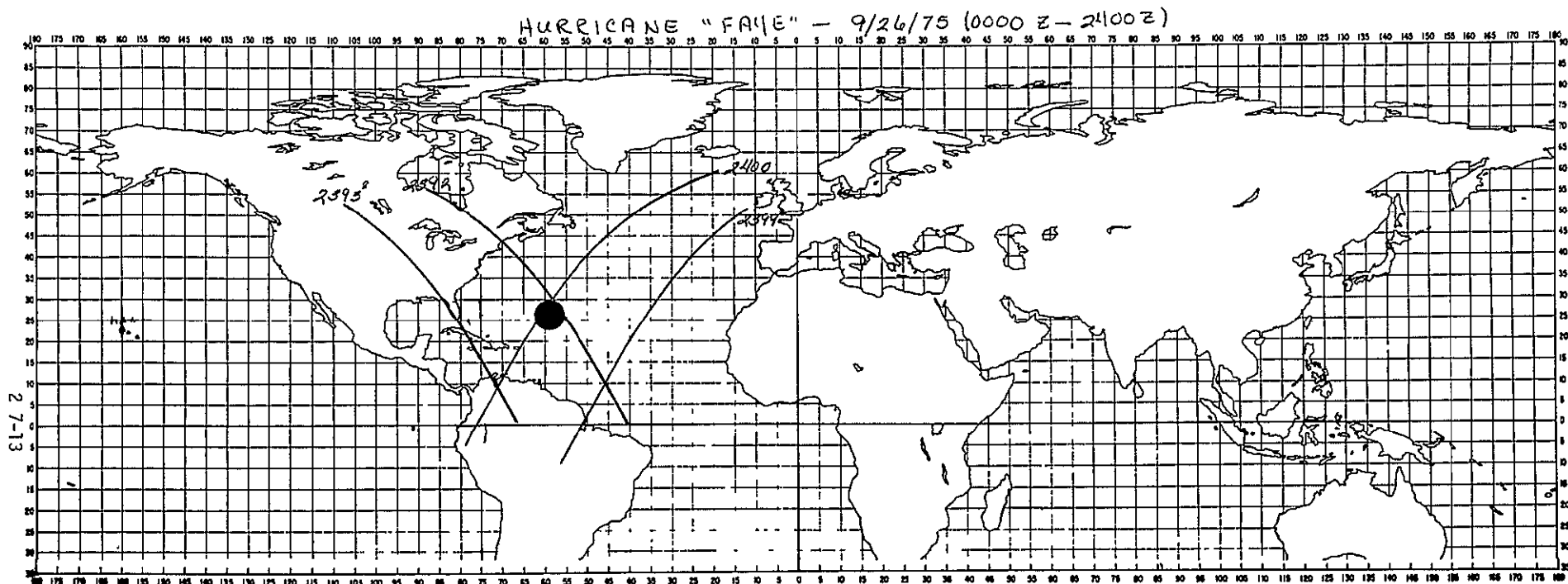


LOCATION

TROPICAL DEPRESSION/TROPICAL STORM (0600Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 23.8N | 57.2W |
| 0600Z | 24.2 | 58.1 |
| 1200Z | 24.8 | 58.8 |
| 1800Z | 25.5 | 59.4 |
| 2400Z | 26.5 | 60.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Height |
|-------|------------------|--------------------------|-----------------|---------|---------|------|--------|
| 2378 | -47.20 | 01 24 02 | 0130E | 01.2842 | 01.5700 | 802 | 51 |
| 2385 | +135.53 | 13 16 31 | 1402E | No | | | |
| 2386 | +110.21 | 14 58 18 | 1540E | No | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

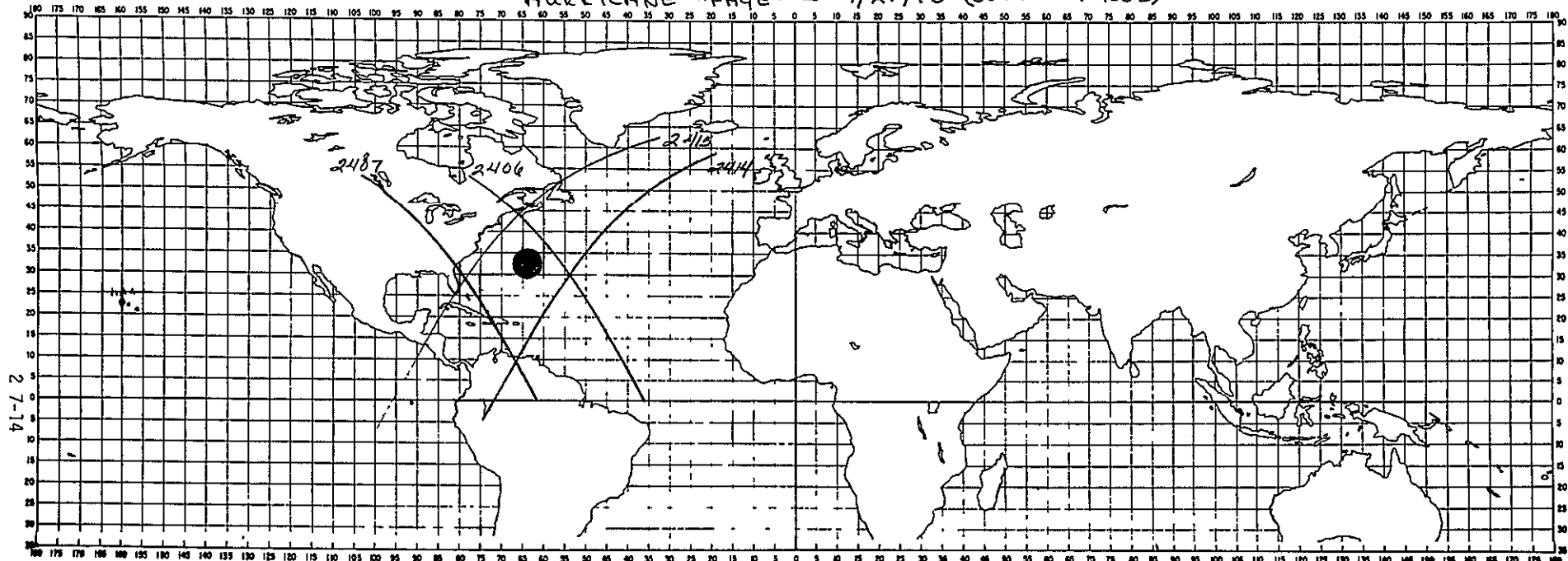


LOCATION
HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 26.5 N | 60.0 W |
| 0600Z | 27.9 | 60.9 |
| 1200Z | 29.6 | 62.0 |
| 1800Z | 31.0 | 63.1 |
| 2400Z | 32.7 | 64.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2392 | - 41 73 | 01 09 01 | 0117Z | 011931 | 012241 | 802 | 66 |
| 2395 | - 67 03 | 02 50 48 | 0256Z | No | | | |
| 2399 | +141 01 | 13 01 31 | 1347Z | No | | | |
| 2400 | +116 68 | 14 43 18 | 1526Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "FAYE" - 9/27/75 (0000Z - 2400Z)

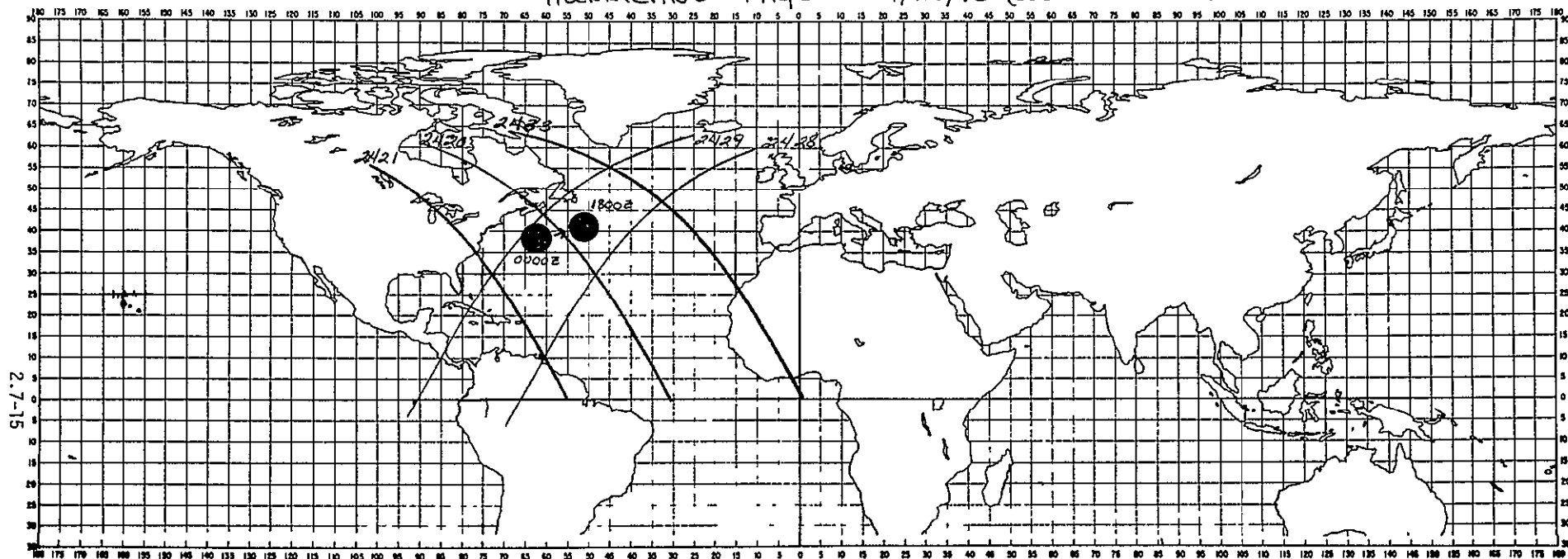


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 32.7 N | 64.2 W |
| 0600Z | 34.4 | 65.2 |
| 1200Z | 36.1 | 65.7 |
| 1800Z | 37.4 | 65.0 |
| 2400Z | 38.4 | 69.7 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Made | Uniq |
|-------|------------------|--------------------------|-----------------|--------|--------|------|------|
| 2406 | - 36 26 | 00 54 00 | 0103Z | 010542 | 010820 | 802 | 83 |
| 2407 | - 61 58 | 02 35 47 | 0242Z | 024210 | 024553 | 802 | 84 |
| 2414 | + 121 16 | 14 28 17 | 1511Z | No | | | |
| 2415 | + 95 84 | 16 10 04 | 1648Z | 164437 | 165753 | 802 | 94 |
| | | | | | | | |
| | | | | | | | |

HURRICANE "FA4E" - 9/28/75 (0000Z - 2400Z)

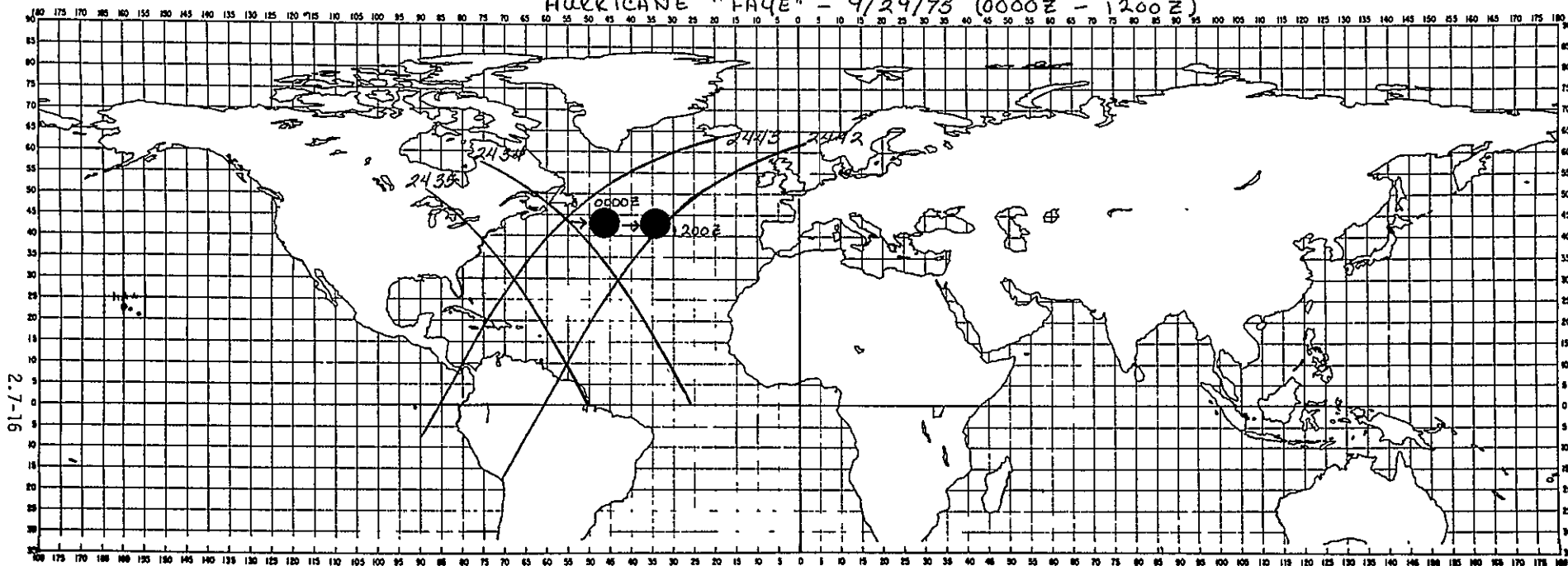


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 38.4N | 63.7W |
| 0600Z | 39.8 | 60.5 |
| 1200Z | 41.0 | 57.1 |
| 1800Z | 42.3 | 52.0 |
| 2400Z | 42.8 | 46.0 |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Model | Length |
|-------|------------------|--------------------------|-----------------|--------|--------|-------|--------|
| 2420 | -30.78 | 00.38.59 | 0051Z | No | | | |
| 2421 | -56.11 | 02.20.46 | 0229Z | 022812 | 023139 | 802 | 102 |
| 2428 | +126.63 | 14.13.16 | 1453Z | No | | | |
| 2429 | +101.31 | 15.55.03 | 1631Z | 163037 | 164506 | 802 | 111 |
| 2433 | 00.00 | 22.42.12 | 2257Z | No | | | |
| | | | | | | | |

HURRICANE "FAYE" - 9/29/75 (0000Z - 1200Z)



LOCATION

HURRICANE/EXTRA TROPICAL (1200Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 42.8N | 46.0W |
| 0600Z | 42.9 | 40.0 |
| 1200Z | 43.0 | 34.0 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq |
|-------|------------------|--------------------------|-----------------|--------|--------|------|------|
| 2434 | - 25.31 | 00 23 59 | 0036Z | No | | | |
| 2435 | - 50.63 | 02 05 46 | 0215Z | 021410 | 021854 | 802 | 118 |
| 2442 | +132.11 | 13 58 15 | 1436Z | No | | | |
| 2443 | +108.78 | 15 40 02 | 1613Z | 161514 | 163129 | 802 | 122 |
| | | | | | | | |
| | | | | | | | |

HURRICANE GLADYS

September 22 - October 3, 1975

Meteorological History/Data

The disturbance from which Gladys evolved followed the one which formed Faye by about four days as it crossed the eastern part of the tropical Atlantic. Faye took a more northern course near latitude 20°N while the predecessor of Gladys followed to the southeast near latitude 11°N.

No reconnaissance data nor ship reports were available from the immediate vicinity of the system from the time it was a tropical disturbance until two days after it became a hurricane. The estimates of maximum wind and central pressure during this period, therefore, are based on satellite photographs. These pictures suggest that a depression formed on September 22 and reached tropical storm intensity about forty-eight hours later. An eye became apparent on satellite pictures on September 25 and Gladys was upgraded to hurricane status.

Shortly after Gladys became a hurricane it came under the influence of strong vertical wind shear which prevented further intensification. Gladys barely maintained hurricane strength for the next four days and winds may even have dropped below the hurricane threshold on September 28 as the central pressure rose to 1000 millibars.

However, as Gladys tracked west-northwestward on September 29, and the cold low which was east of the Bahamas receded to the southwest, the influence of the strong westerly shear ended and the hurricane deepened rapidly.

Forecasts and Warnings

During the next two days the forecast problem centered on the degree of persistence of the ridge to the north and its effect on the recurvature of the hurricane. Even though Gladys turned toward the north-northwest on October 1, and was expected to turn toward the north on the following day, the threat to the outer banks of North Carolina was sufficient to warrant a hurricane watch, which was issued for the area from Cape Lookout to Kitty Hawk at 6 p.m. EDT, October 1. Because of rising tides and increasing swells of eight feet, local officials closed the Cape Hatteras National Seashore road and campground.

As the hurricane center passed about 300 miles east of Cape Hatteras it reached its lowest pressure of 939 millibars with highest winds estimated 120 kts. This is one of the lowest recorded pressures in a hurricane that far north.

Gladys turned to the northeast and accelerated on October 2. It became apparent that the center would miss the North American continent but it still posed a threat to the island of Newfoundland. The hurricane attained a forward speed of more than 50 mph and two reconnaissance planes were unable to penetrate the center due to severe turbulence. The center passed about 70 miles off Cape Race, Newfoundland, about daybreak of October 3 and gradually became extratropical as it sped northeastward and merged with a cold front during the day.

Damage Estimates

No reports of casualties or damage due to Gladys have been received.

C-2

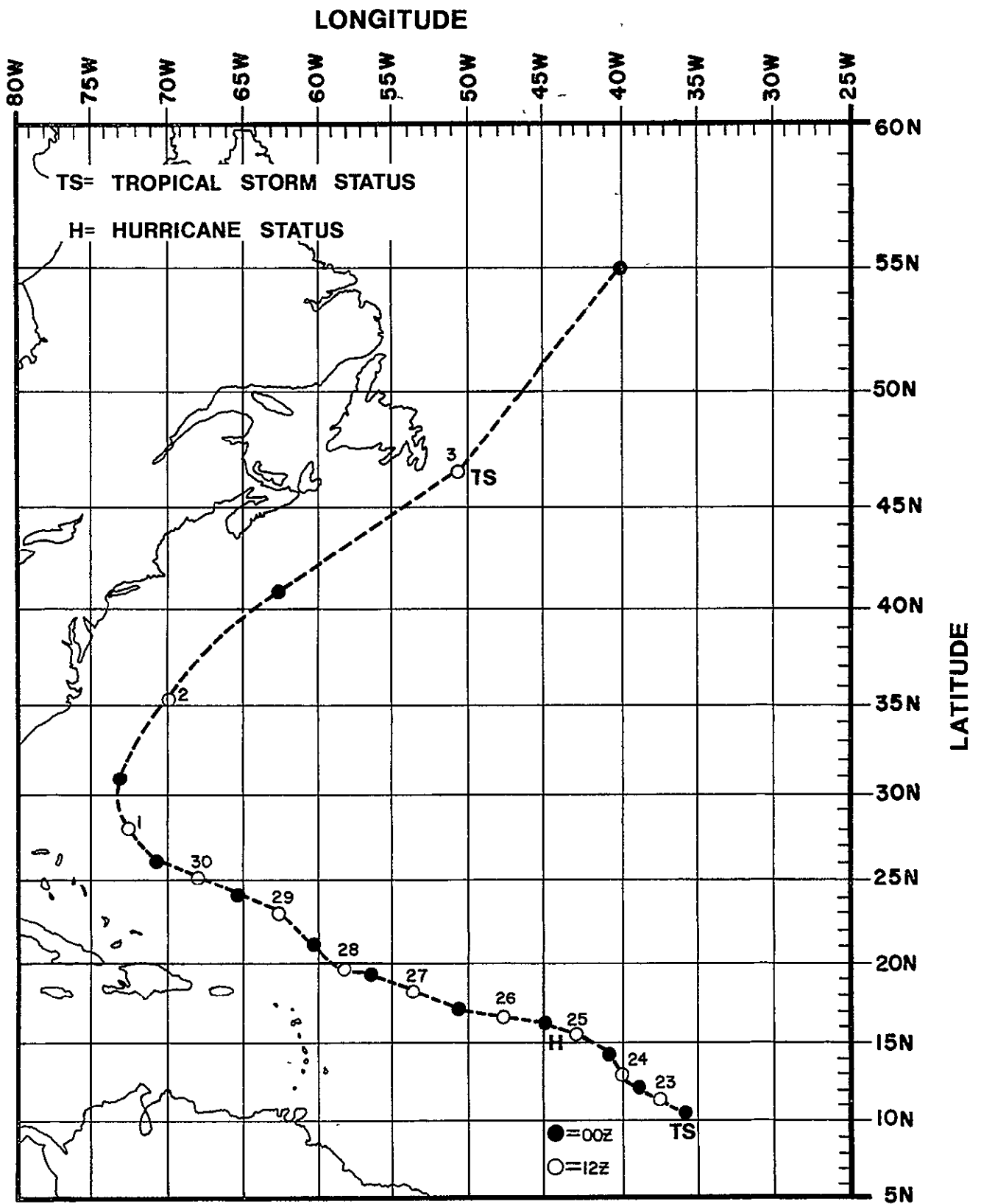


FIGURE 7. PRELIMINARY BEST TRACK FOR HURRICANE GLADYS

HURRICANE GLADYS SEPTEMBER-OCTOBER 1975

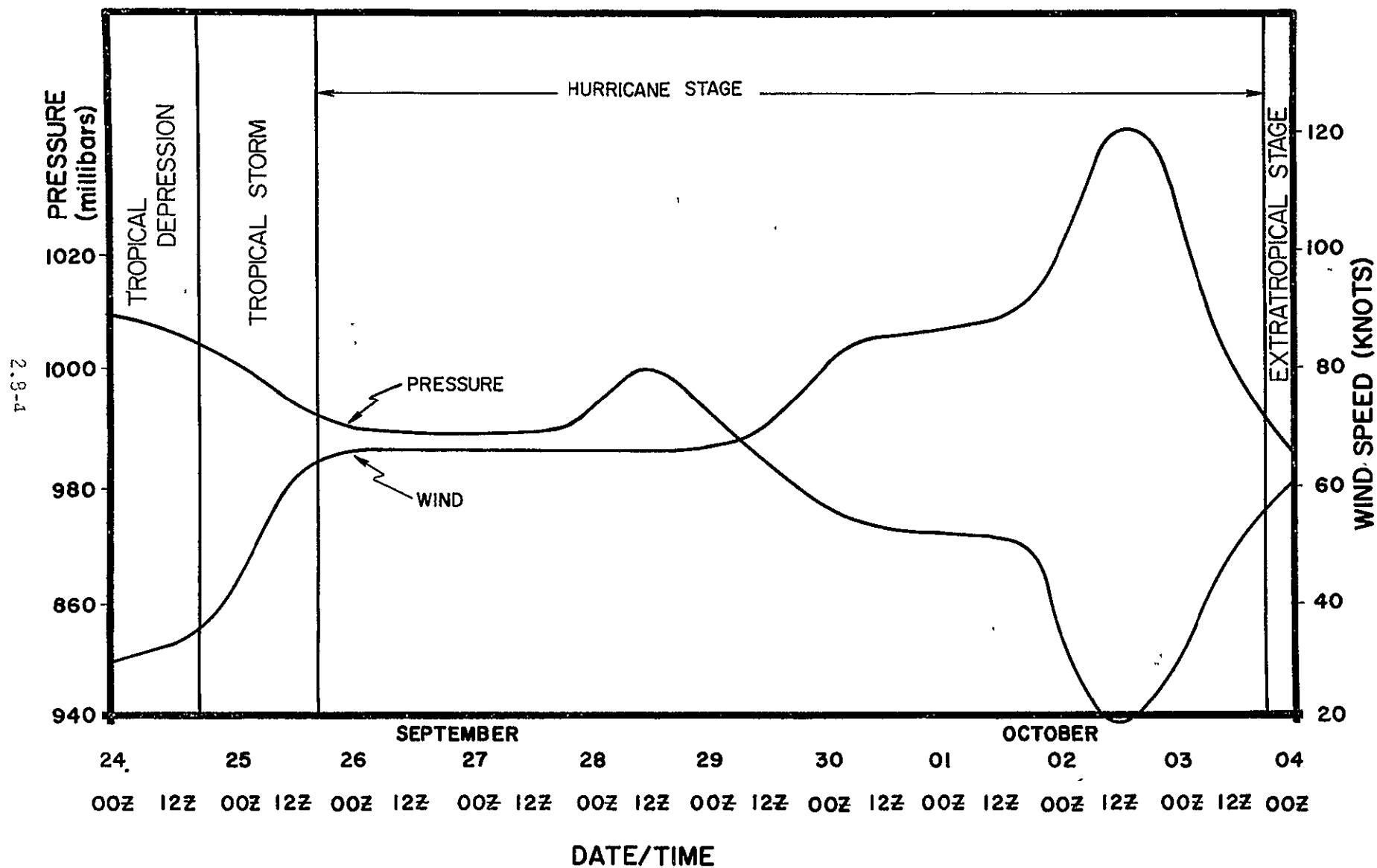


FIGURE 8 HURRICANE GLADYS PRESSURE-WIND VELOCITY PROFILE

STORM: HURRICANE GLADYSDATE: SEPT 22 - OCT 3, 1975

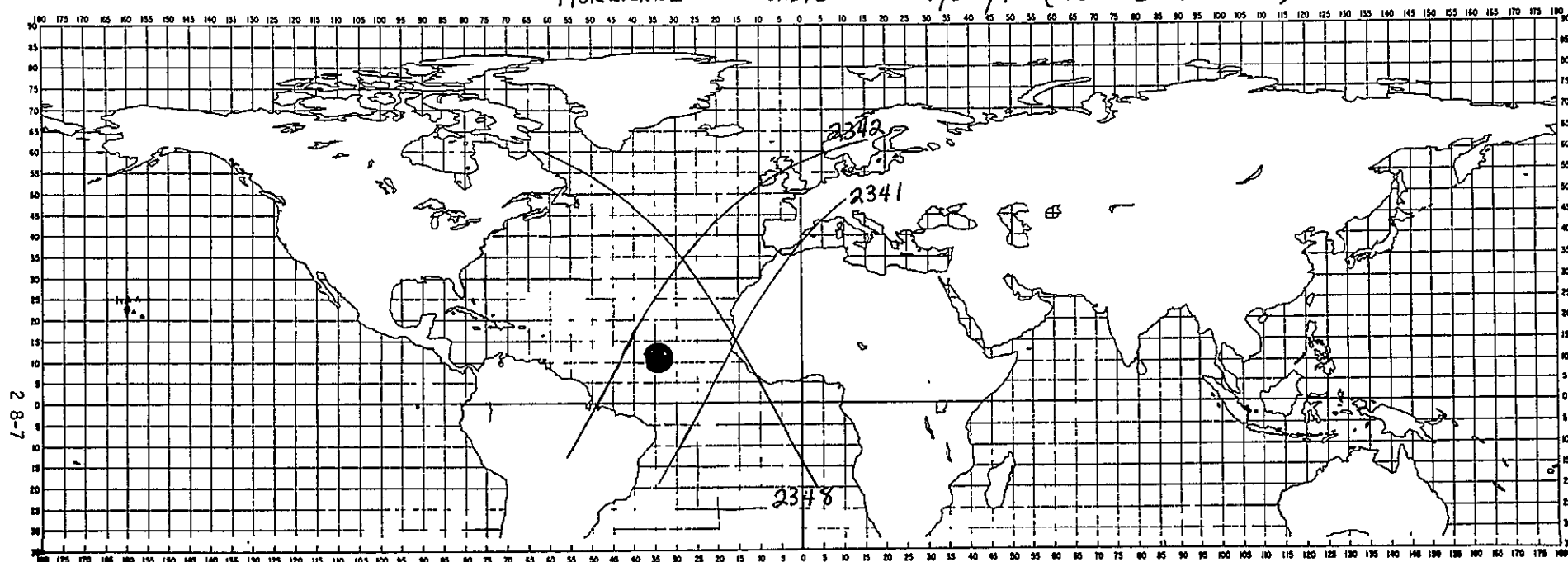
| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|----------|----------|-----------|---------------|------------|---------------------|
| | | Latitude | Longitude | | | |
| 9/22 | 1800Z | 10.3N | 34.8W | 1012 | 25 | Tropical Depression |
| 9/23 | 0000Z | 10.6N | 35.8W | 1012 | 25 | Tropical Depression |
| | 0600Z | 11.0 | 36.7 | 1012 | 25 | |
| | 1200Z | 11.4 | 37.4 | 1012 | 25 | |
| | 1800Z | 11.7 | 38.2 | 1010 | 30 | |
| 9/24 | 0000Z | 12.1N | 38.8W | 1010 | 30 | Tropical Depression |
| | 0600Z | 12.4 | 39.6 | 1010 | 30 | |
| | 1200Z | 12.9 | 40.0 | 1010 | 30 | |
| | 1800Z | 13.5 | 40.4 | 1005 | 35 | |
| 9/25 | 0000Z | 14.2N | 41.0W | ---- | 40 | Tropical Storm |
| | 0600Z | 14.8 | 42.0 | 1000 | 50 | |
| | 1200Z | 15.4 | 43.0 | ---- | 60 | |
| | 1800Z | 15.8 | 44.0 | 990 | 65 | |
| 9/26 | 0000Z | 16.2N | 45.0W | 990 | 65 | Hurricane |
| | 0600Z | 16.4 | 46.1 | 990 | 65 | |
| | 1200Z | 16.6 | 47.7 | 990 | 65 | |
| | 1800Z | 16.8 | 49.3 | 990 | 65 | |
| 9/27 | 0000Z | 17.1N | 50.7W | 990 | 65 | Hurricane |
| | 0600Z | 17.6 | 52.2 | 990 | 65 | |
| | 1200Z | 18.2 | 53.7 | 990 | 65 | |
| | 1800Z | 18.8 | 55.1 | 990 | 65 | |
| 9/28 | 0000Z | 19.4N | 56.4W | 992 | 65 | Hurricane |
| | 0600Z | 19.6 | 57.4 | ---- | 65 | |
| | 1200Z | 19.8 | 58.2 | 1000 | 65 | |
| | 1800Z | 20.3 | 59.3 | 998 | 65 | |
| 9/29 | 0000Z | 21.2N | 60.3W | 995 | 65 | Hurricane |
| | 0600Z | 22.1 | 61.4 | 990 | 70 | |
| | 1200Z | 23.0 | 62.6 | ---- | -- | |
| | 1800Z | 23.6 | 63.9 | 985 | 75 | |

STORM: HURRICANE GLADYS (CONT.)

DATE: SEPT 22 - OCT 3, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|----------|----------|-----------|---------------|------------|---------------------|
| | | Latitude | Longitude | | | |
| 9/30 | 0000Z | 24.1N | 65.2W | 975 | 80 | Hurricane |
| | 0600Z | 24.6 | 66.5 | 975 | 80 | |
| | 1200Z | 25.1 | 67.9 | 975 | 80 | |
| | 1800Z | 25.6 | 69.3 | 975 | 80 | |
| 10/1 | 0000Z | 26.1N | 70.6W | 975 | 80 | Hurricane |
| | 0600Z | 26.8 | 71.7 | 975 | 80 | |
| | 1200Z | 27.9 | 72.4 | 975 | 80 | |
| | 1800Z | 29.4 | 73.0 | 969 | 90 | |
| 10/2 | 0000Z | 31.0N | 73.0W | 954 | 100 | Hurricane |
| | 0600Z | 32.9 | 72.1 | 942 | 110 | |
| | 1200Z | 35.3 | 69.8 | 939 | 120 | |
| | 1800Z | 37.8 | 67.0 | ---- | --- | |
| 10/3 | 0000Z | 40.8N | 62.6W | 950 | 110 | Hurricane |
| | 0600Z | 43.7 | 57.0 | 960 | 85 | |
| | 1200Z | 46.6 | 50.6 | ---- | -- | Extratropical Storm |
| | 1800Z | 50.5 | 45.5 | 975 | 75 | |
| 10/4 | 0000Z | 55.0N | 40.0W | 980 | 65 | Extratropical Storm |

HURRICANE "GLADYS" - 9/22/75 (1800Z-2400Z)

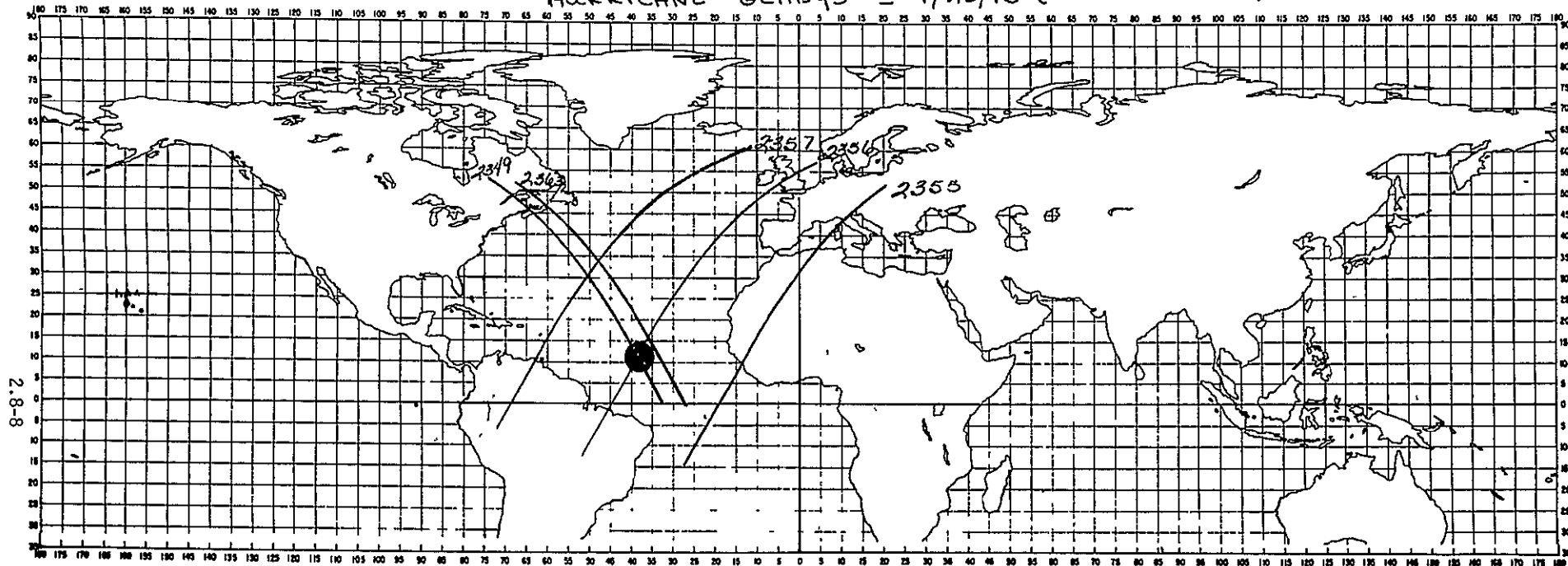


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1800Z | 10.3N | 34.8W |
| 2400Z | 10.6 | 38.8 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | U.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|-----|
| 2341 | +169.76 | 10 38 00 | 1128Z | No | | | |
| 2342 | +144.43 | 12 19 47 | 1307Z | No | | | |
| 2348 | - 7.50 | 22 30 29 | 2236Z | No | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "GLADYS" - 9/23/75 (0000Z - 2400Z)



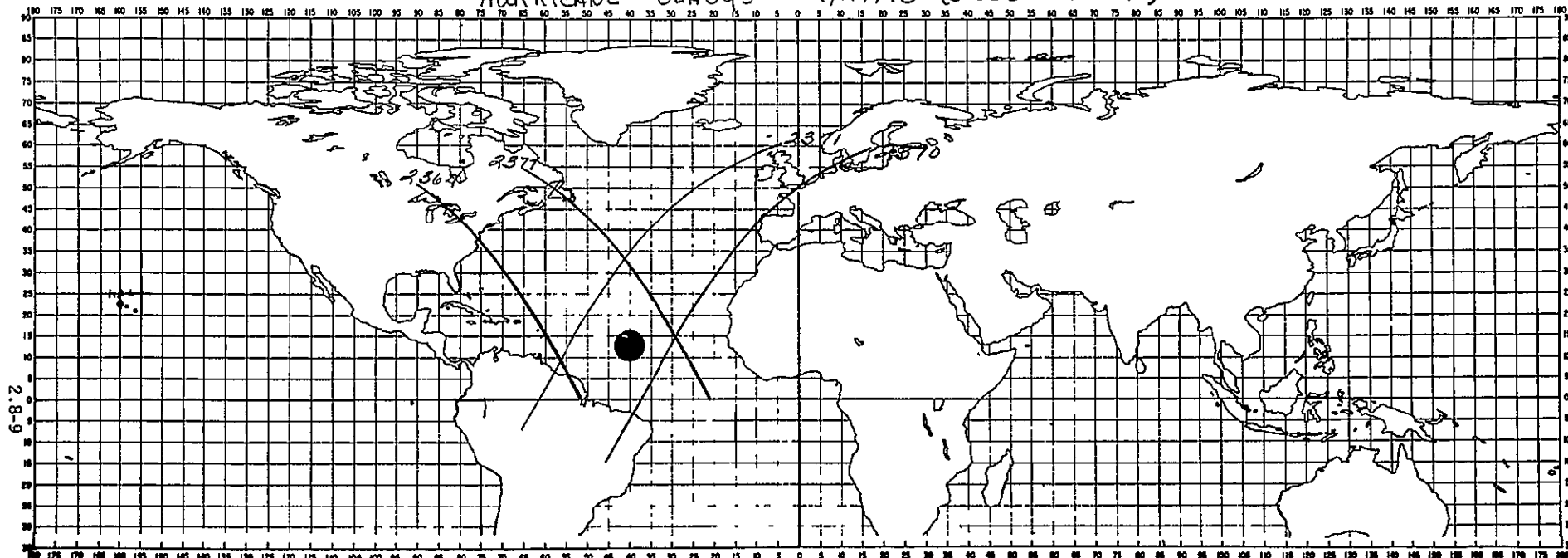
LOCATION

TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 10.6 N | 35.8 W |
| 0600Z | 11.0 | 36.7 |
| 1200Z | 11.4 | 37.4 |
| 1800Z | 11.7 | 38.2 |
| 2400Z | 12.1 | 38.8 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2349 | -32.83 | 00 12 16 | 0015Z | 002120 | 002324 | 802 | 20 |
| 2355 | +175.23 | 10 22 59 | 1114Z | No | | | |
| 2356 | +149.91 | 12 04 46 | 1252Z | No | | | |
| 2357 | +124.59 | 13 46 33 | 1430Z | No | | | |
| 2363 | -27.35 | 23 57 15 | 0001Z (9/24) | No | | | |

HURRICANE "GLADYS" - 9/24/75 (0000Z - 2400Z)



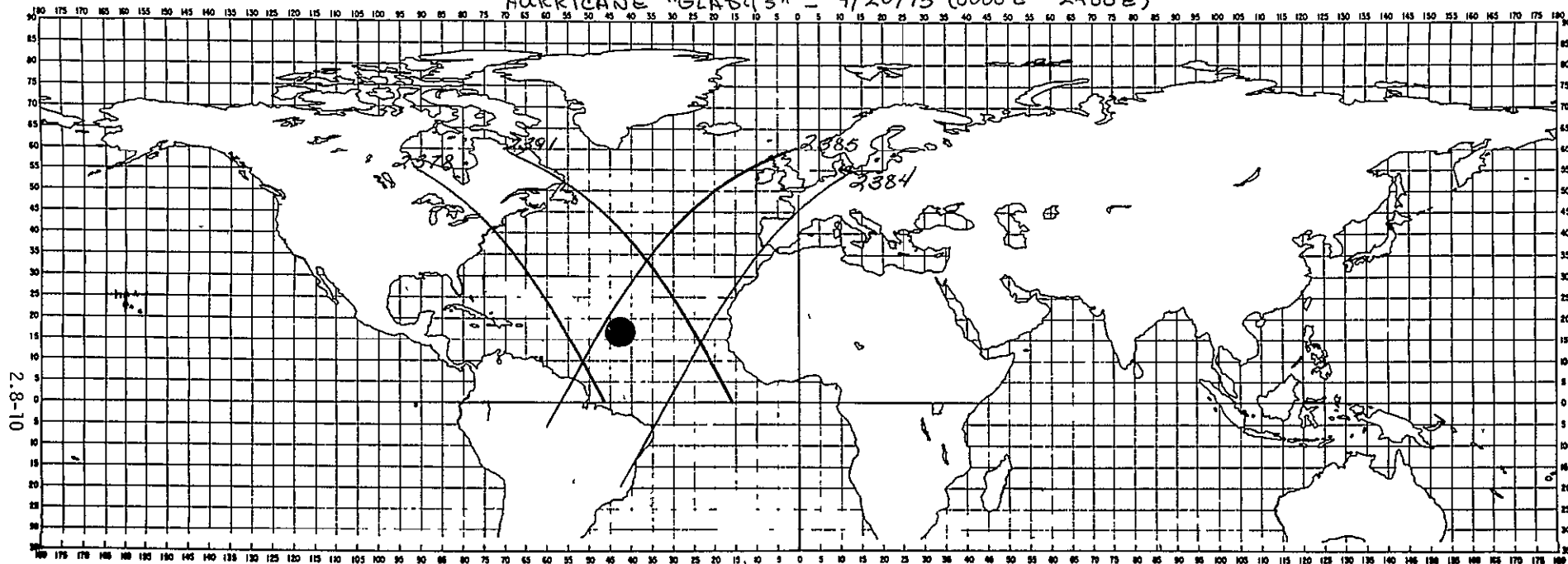
LOCATION

TROPICAL DEPRESSION/TROPICAL STORM (1800Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 12.1N | 38.8W |
| 0600Z | 12.4 | 39.6 |
| 1200Z | 12.9 | 40.0 |
| 1800Z | 13.5 | 40.4 |
| 2100Z | 14.2 | 41.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Made | Uniq# |
|-------|------------------|--------------------------|-----------------|----|-----|------|-------|
| 2364 | - 52.68 | 01 39 02 | 0140Z | No | | | |
| 2370 | +155.38 | 11 49 15 | 1236Z | No | | | |
| 2371 | +130.46 | 13 31 32 | 1416Z | No | | | |
| 2377 | - 21.88 | 23 42 15 | 2348Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "GLADYS" - 9/25/75 (0000Z - 2400Z)

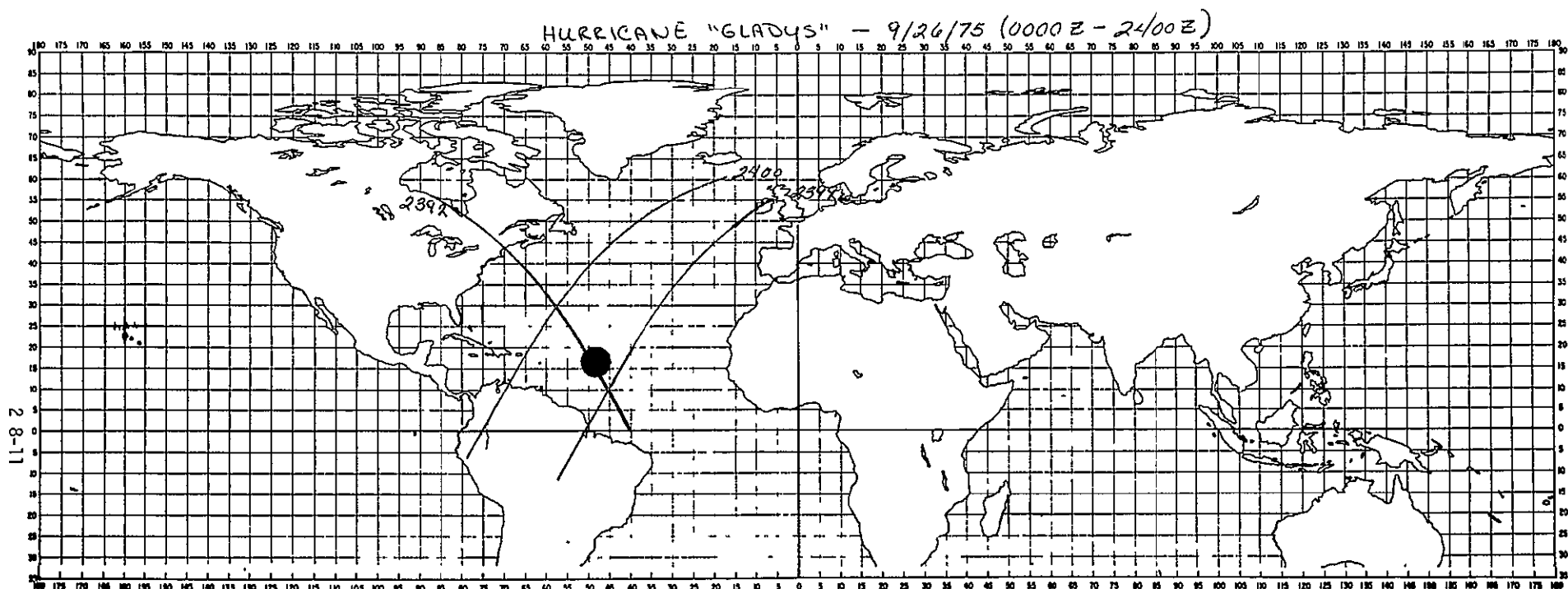


LOCATION

TROPICAL STORM/HURRICANE (1800Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 14.2N | 41.0W |
| 0600Z | 14.8 | 42.0 |
| 1200Z | 15.4 | 43.0 |
| 1800Z | 15.8 | 44.0 |
| 2400Z | 16.2 | 45.0 |

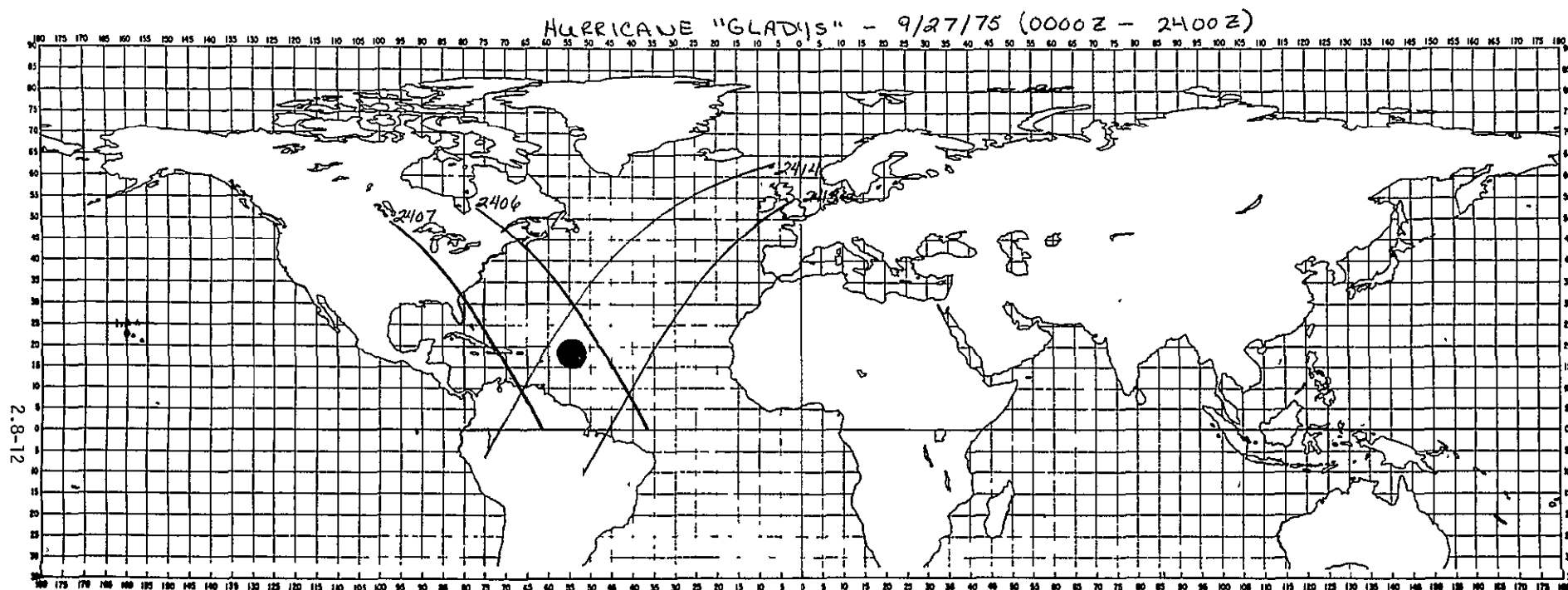
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|----|-----|------|-------|
| 2378 | - 47.20 | 01 24 02 | 0126E | No | | | |
| 2384 | +160.86 | 11 34 44 | 1223E | No | | | |
| 2385 | +135.53 | 13 16 31 | 1402E | No | | | |
| 2391 | - 16.40 | 23 27 14 | 2335E | No | | | |
| | | | | | | | |
| | | | | | | | |



LOCATION
HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.2N | 45.0W |
| 0600Z | 16.4 | 46.1 |
| 1200Z | 16.6 | 47.7 |
| 1500Z | 16.8 | 49.3 |
| 2400Z | 17.1 | 50.7 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2392 | -41.73 | 01 09 01 | 0113Z | 111931 | 613241 | 802 | 66 |
| 2399 | +141 01 | 13 01 31 | 1348Z | No | | | |
| 2400 | +115.68 | 14 43 18 | 1526Z | No | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



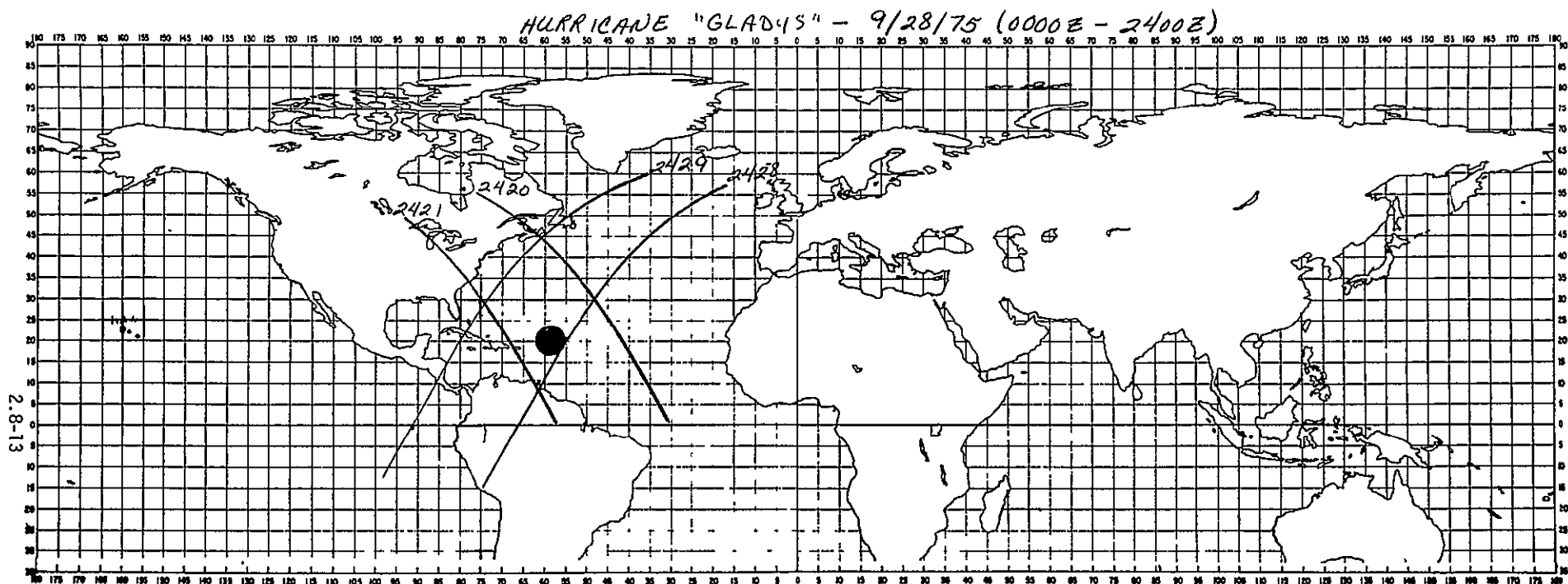
2.8-12

LOCATION

HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 17.1N | 50.7W |
| 0600Z | 17.6 | 52.2 |
| 1200Z | 18.2 | 53.7 |
| 1800Z | 18.8 | 55.1 |
| 2400Z | 19.4 | 56.4 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Height |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2406 | - 36.26 | 00 54 00 | 0100Z | 010542 | 010820 | 802 | 83 |
| 2407 | - 61.58 | 02 35 47 | 0238Z | 024210 | 024553 | 802 | 84 |
| 2413 | +146.48 | 12 46 30 | 1335Z | No | | | |
| 2414 | +121.16 | 14 26 17 | 1511Z | No | | | |
| | | | | | | | |
| | | | | | | | |

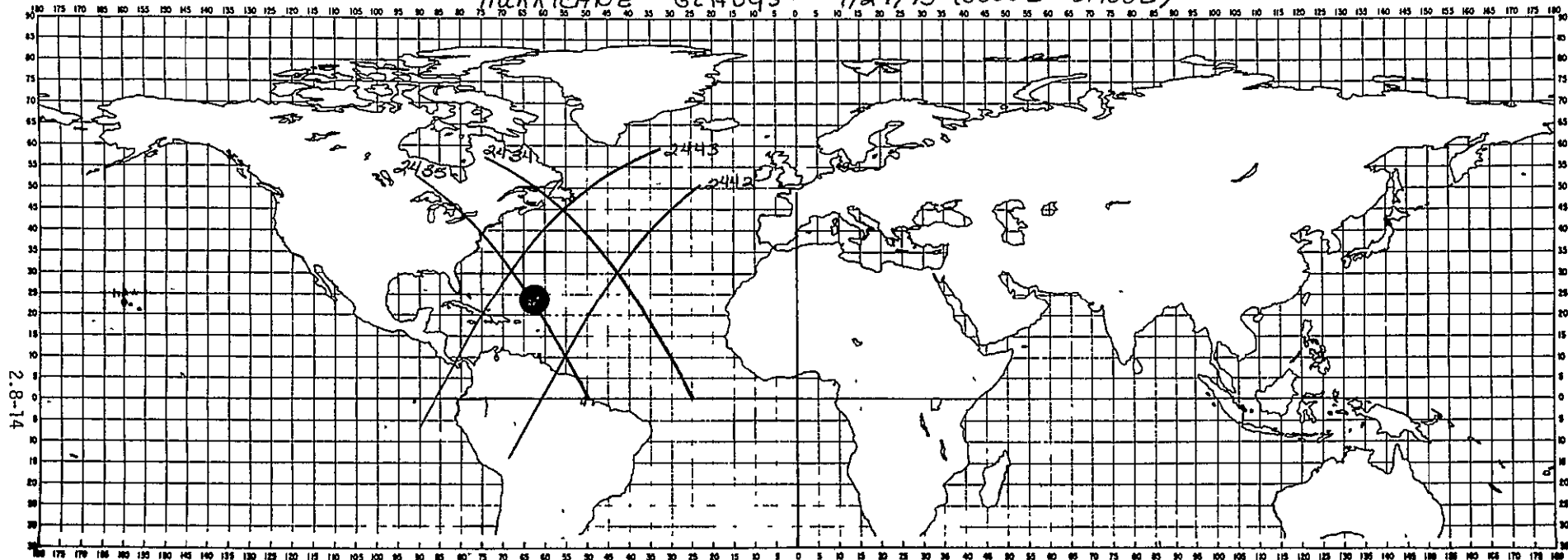


LOCATION
HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 19.4N | 56.4W |
| 0600Z | 19.6 | 57.4 |
| 1200Z | 19.8 | 58.2 |
| 1800Z | 20.3 | 59.3 |
| 2400Z | 21.2 | 60.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Height |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2420 | -30.78 | 00 38 59 | 0047Z | No | | | |
| 2421 | -56.11 | 02 20 46 | 0225Z | 023812 | 023139 | 802 | 102 |
| 2428 | +126.63 | 14 13 16 | 1458Z | No | | | |
| 2429 | +101.31 | 15 55 03 | 1637Z | 163037 | 164217 | 802 | 111 |
| | | | | | | | |
| | | | | | | | |

HURRICANE "GLADYS" - 9/29/75 (0000Z - 2400Z)



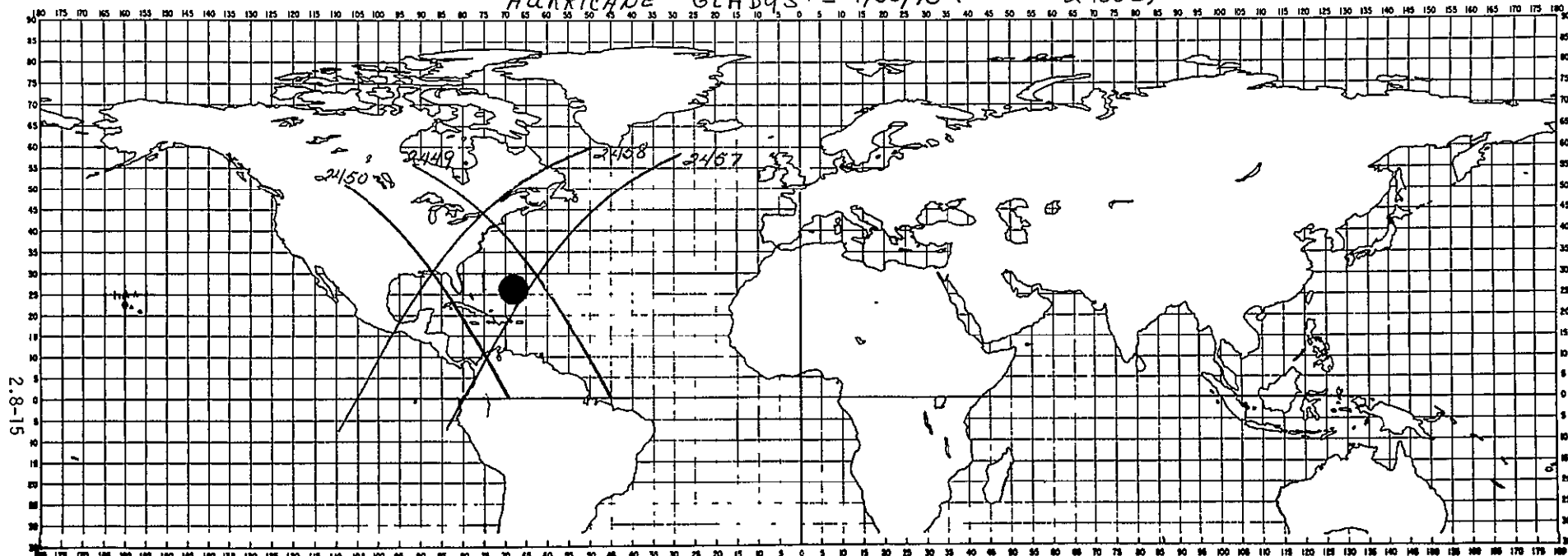
LOCATION

HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 21.2N | 60.3W |
| 0600Z | 22.1 | 61.4 |
| 1200Z | 23.0 | 62.6 |
| 1800Z | 23.6 | 63.9 |
| 2400Z | 24.1 | 65.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq. # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|---------|
| 2434 | -25.31 | 00 23 59 | 0034Z | No | | | |
| 2435 | -50.63 | 02 05 46 | 0211Z | 021410 | 021854 | 802 | 118 |
| 2442 | +132.11 | 13 58 15 | 1444Z | No | | | |
| 2443 | +106.79 | 15 40 02 | 1523Z | 161655 | 162532 | 802 | 123 |
| | | | | | | | |

HURRICANE "GLADYS" - 9/30/75 (0000Z - 2400Z)



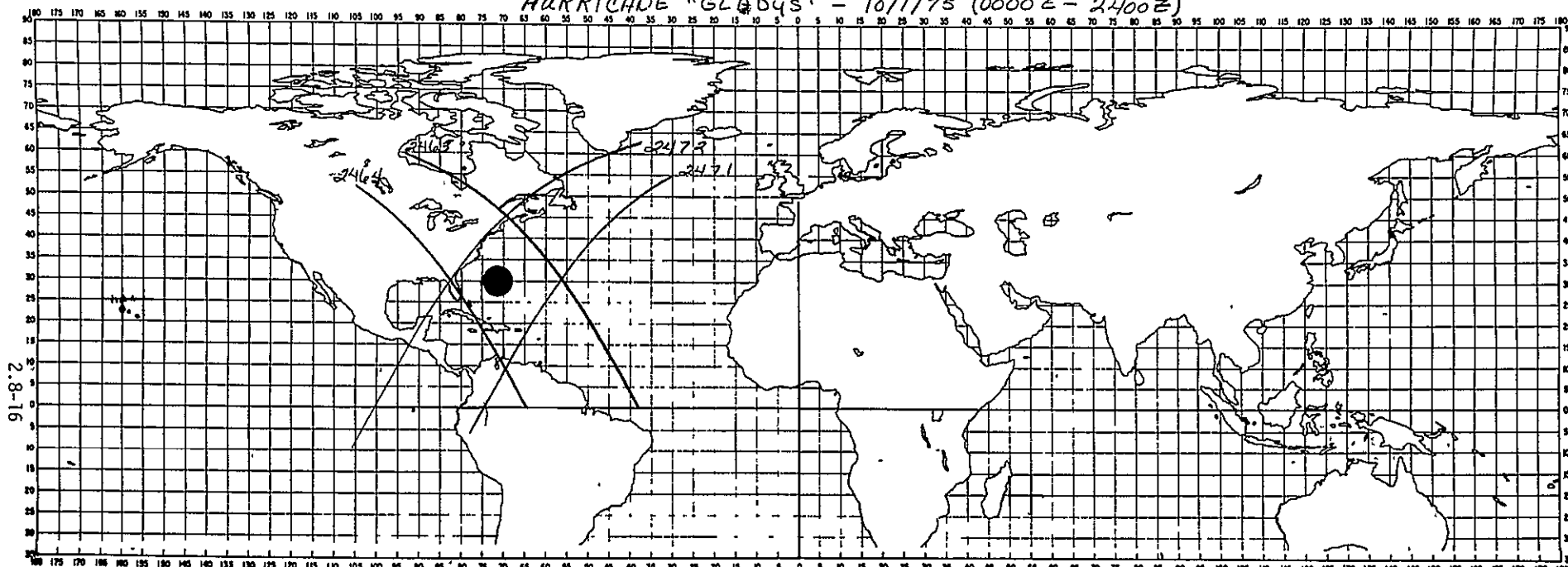
LOCATION

HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 24.1N | 65.2W |
| 0600Z | 24.6 | 66.5 |
| 1200Z | 25.1 | 67.9 |
| 1800Z | 25.6 | 69.3 |
| 2400Z | 26.1 | 70.6 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 2449 | - 45.16 | 01 50 45 | 0159Z | 020035 | 020454 | 802 | 135 |
| 2450 | - 70.48 | 03 32 32 | 0336Z | No | | | |
| 2457 | +112 26 | 15 25 01 | 1608Z | 160119 | 161536 | 802 | 132 |
| 2458 | + 86 94 | 17 06 49 | 1746Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "GLADYS" - 10/1/75 (0000Z - 2400Z)

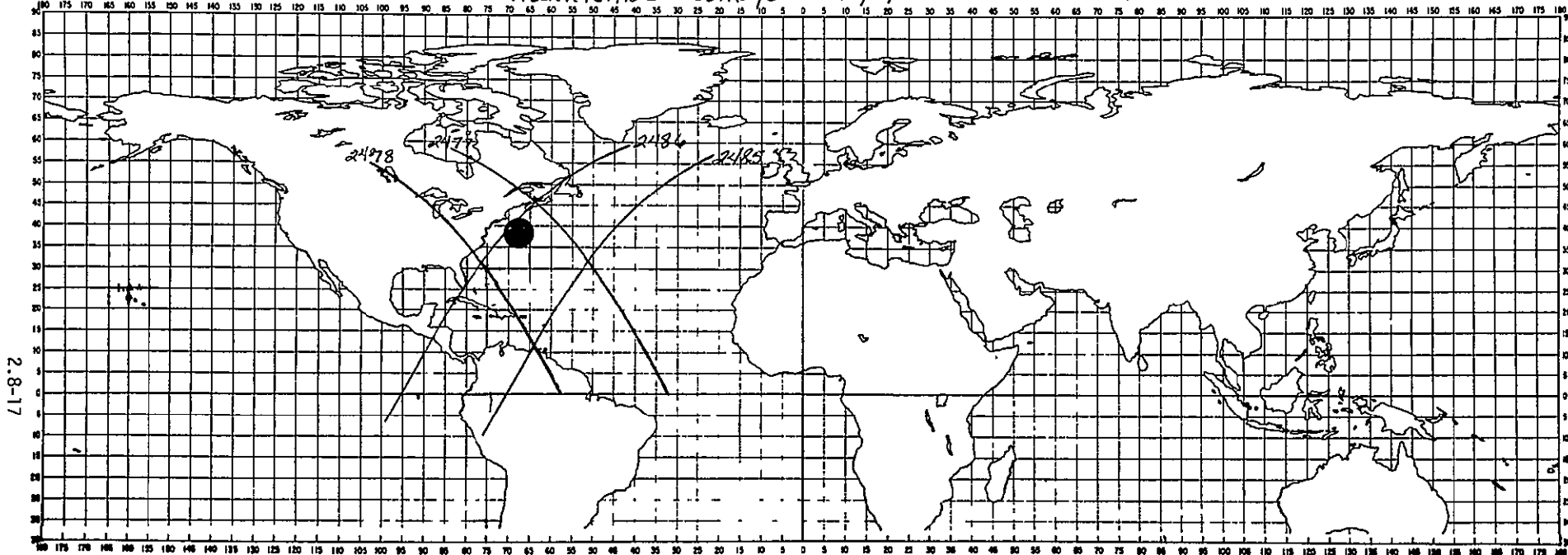


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 26.1N | 70.6W |
| 0600Z | 26.8 | 71.7 |
| 1200Z | 27.9 | 72.4 |
| 1800Z | 29.4 | 73.0 |
| 2400Z | 31.0 | 73.6 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Made | Length |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2463 | - 39 68 | 01 35 44 | 0146Z | 014635 | 015046 | 802 | 138 |
| 2464 | - 65 01 | 03 17 31 | 0324Z | 032313 | 032643 | 802 | 139 |
| 2471 | + 117.73 | 15 10 01 | 1554Z | No | | | |
| 2472 | + 92 41 | 16 51 48 | 1732Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "GLADYS" - 10/2/75 (0000Z - 2400Z)



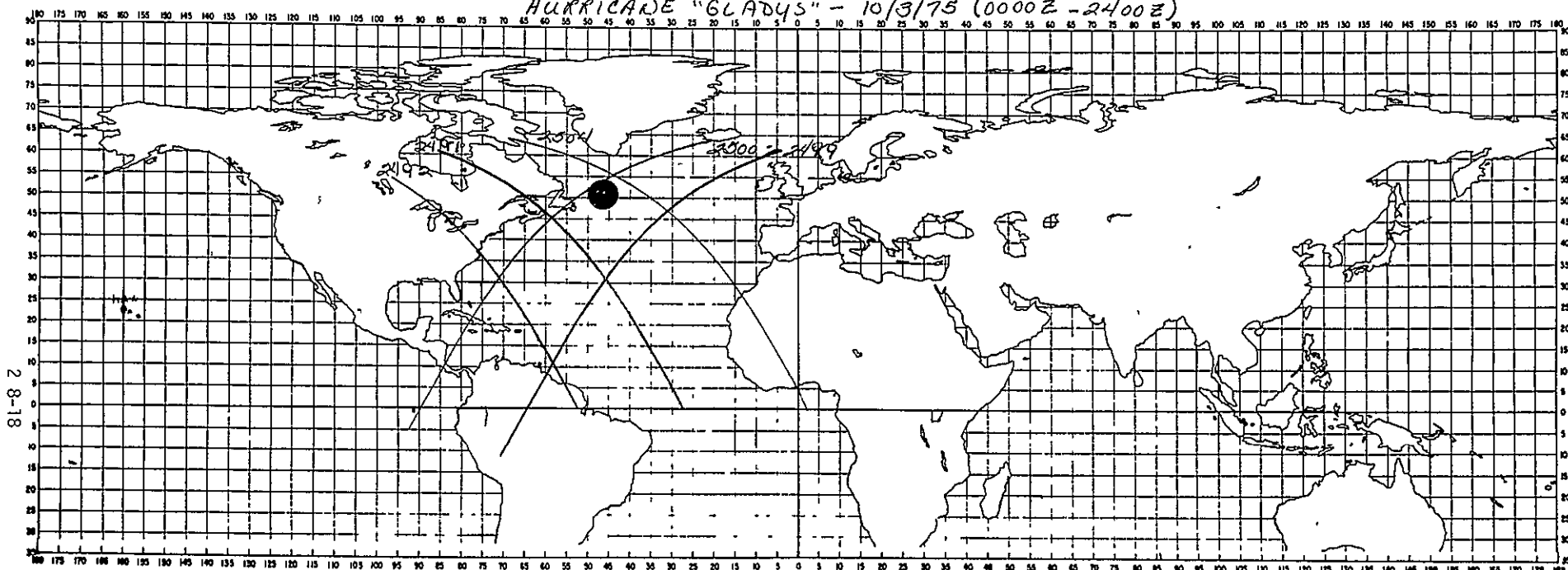
LOCATION

HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 31.0N | 73.0W |
| 0600Z | 32.9 | 72.1 |
| 1200Z | 35.3 | 69.8 |
| 1800Z | 37.8 | 67.0 |
| 2400Z | 40.8 | 62.6 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Height |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2477 | -34.21 | 01 20 43 | 0134Z | No | | | |
| 2478 | -59.23 | 03 02 30 | 0312Z | 030910 | 031352 | 802 | 15.2 |
| 2485 | +123.21 | 14 55 00 | 1538Z | No | | | |
| 2486 | +97.89 | 16 36 47 | 1714Z | 171210 | 172730 | 802 | 160 |

HURRICANE "GLADYS" - 10/3/75 (0000Z - 2400Z)



LOCATION

HURRICANE/EXTRATROPICAL (1800Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 40.8N | 62.6W |
| 0600Z | 43.7 | 57.0 |
| 1200Z | 46.4 | 50.6 |
| 1800Z | 50.5 | 45.5 |
| 2400Z | 55.0 | 40.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | CN | OFF | Model | Height |
|-------|------------------|--------------------------|-----------------|---------|---------|-------|--------|
| 2491 | -28.73 | 01 05 42 | 0120Z | No | | | |
| 2492 | -54.06 | 02 47 29 | 0258Z | 0.35513 | 0.25441 | 80.2 | 14.9 |
| 2499 | +128.68 | 14 39 59 | 1517Z | No | | | |
| 2500 | +103.36 | 16 21 46 | 1655Z | No | | | |
| 2504 | +20.7 | 23 08 55 | 2326Z | No | | | |

3.0 EASTERN PACIFIC/U.S. WEST COAST AREAS

3.1 General

In addition to the GEOS-3 orbit plots, tabulated data listing date, time, storm locations*, wind speed, and storm stage (estimated) have been provided for the following disturbances:

| | |
|--------------------------------|-----------------------|
| . Hurricane "Agatha" | (6/2/75 - 6/5/75) |
| . Tropical Storm "Bridgett" | (6/27/75 - 7/3/75) |
| . Tropical Depression "Four" | (7/2/75 - 7/3/75) |
| . Hurricane "Carlotta" | (7/2/75 - 7/11/75) |
| . Hurricane "Denise" | (7/4/75 - 7/15/75) |
| . Tropical Storm "Eleanor" | (7/10/75 - 7/12/75) |
| . Tropical Storm "Francene" | (7/27/75 - 7/30/75) |
| . Tropical Storm "Georgetta" | (8/10/75 - 8/13/75) |
| . Tropical Storm "Hilary" | (8/12/75 - 8/17/75) |
| . Hurricane "Ilsa" | (8/18/75 - 8/26/75) |
| . Hurricane "Jewel" | (8/23/75 - 8/31/75) |
| . Hurricane "Katrina" | (8/28/75 - 9/7/75) |
| . Tropical Cyclone "Thirteen" | (9/12/75 - 9/16/75) |
| . Hurricane "Lily" | (9/16/75 - 9/21/75) |
| . Tropical Storm "Monica" | (9/28/75 - 10/2/75) |
| . Tropical Storm "Nanette" | (9/28/75 - 10/4/75) |
| . Tropical Cyclone "Seventeen" | (10/16/75 - 10/17/75) |
| . Hurricane "Olivia" | (10/22/75 - 10/25/75) |

Historical information, as well as pressure profiles, were not available for these disturbances, of which there were eighteen. The first recorded storm was Hurricane "Agatha" (June 2 - June 5, 1975); the last storm was Hurricane "Olivia" (October 22-25, 1975)

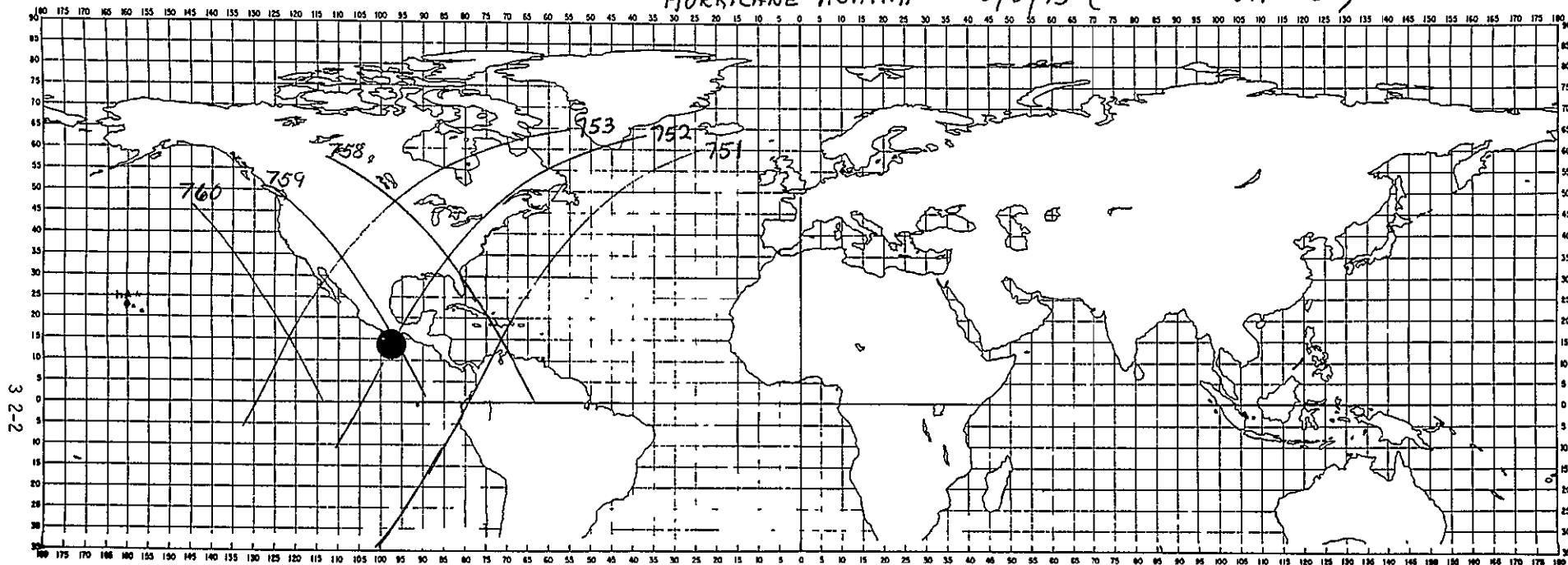
* Storm positions (latitude, longitude) and wind speeds were presented as three different sets of data in the source material. These data sets were labelled as "Analyzed," "Most Probable," and "24-Hr. Fcst." For the purposes of this document, only the set labelled "Most Probable" was used in plotting the storms.

STORM: HURRICANE AGATHA

DATE: JUNE 2 - JUNE 5, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 6/02 | 0000Z | 13.5N | 99.0W | | 30 | Tropical Depression |
| | 0600Z | 13.3 | 99.4 | | 30 | |
| | 1200Z | 13.2 | 99.9 | | 30 | Tropical Storm |
| | 1800Z | 13.2 | 100.4 | | 35 | |
| 6/03 | 0000Z | 13.3N | 101.0W | | 40 | Tropical Storm |
| | 0600Z | 13.8 | 101.6 | | 45 | |
| | 1200Z | 14.5 | 102.5 | | 55 | |
| | 1800Z | 15.2 | 103.4 | | 60 | |
| 6/04 | 0000Z | 15.8N | 104.1W | | 70 | Hurricane |
| | 0600Z | 16.6 | 104.7 | | 65 | Tropical Storm |
| | 1200Z | 17.2 | 104.7 | | 55 | |
| | 1800Z | 17.8 | 104.9 | | 55 | |
| 6/05 | 0000Z | 18.1N | 105.0W | | 50 | Tropical Storm |
| | 0600Z | 18.7 | 105.7 | | 45 | |
| | 1200Z | 19.0 | 106.2 | | 35 | Tropical Depression |
| | 1800Z | 19.3 | 106.4 | | 30 | |
| 6/06 | 0000Z | 19.7N | 106.7W | | 30 | Tropical Depression |
| | 0600Z | ---- | ----- | | -- | |

HURRICANE "AGATHA" - 6/2/75 (0000Z - 2400Z)

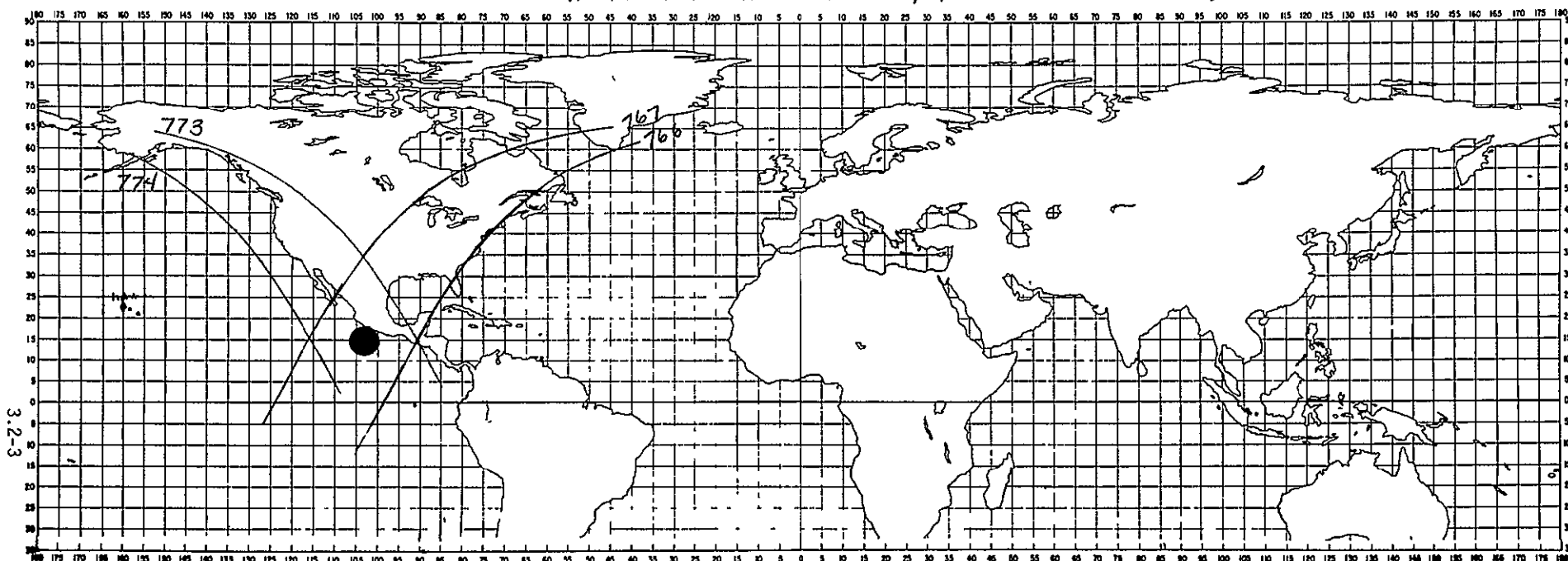


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 13.5N | 99.0W |
| 0600Z | 13.3 | 99.4 |
| 1200Z | 13.2 | 99.9 |
| 1800Z | 13.2 | 99.9 |
| 2400Z | 13.3 | 101.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | # |
|-------|------------------|--------------------------|-----------------|----|-----|------|---|
| 751 | + 113.76 | 01 19 56 | 0210Z | NO | | | |
| 752 | + 88.44 | 03 01 43 | 0347Z | NO | | | |
| 753 | + 63.11 | 04 43 31 | 0527Z | NO | | | |
| 758 | - 63.50 | 13 12 26 | 1320Z | NO | | | |
| 759 | - 88.83 | 14 54 13 | 1459Z | NO | | | |
| 760 | - 114.15 | 16 36 00 | 1637Z | NO | | | |

HURRICANE "AGATHA" - 6/3/75 (0000Z - 2400Z)



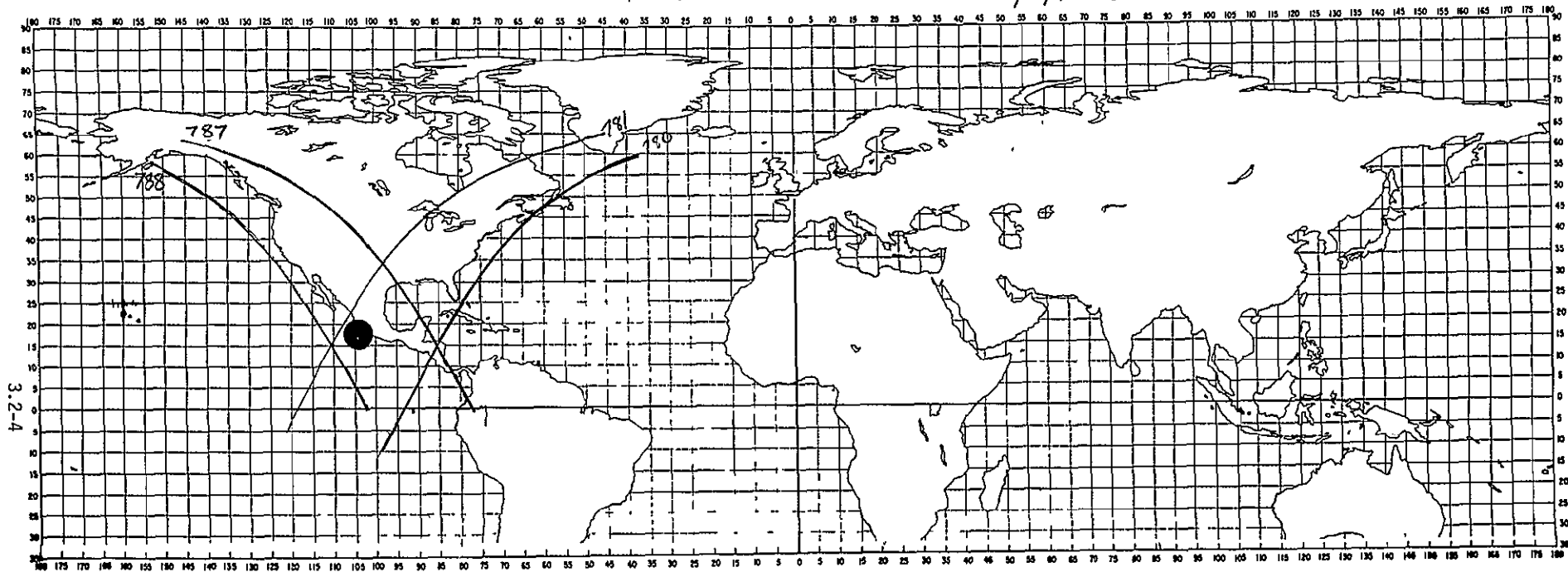
LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 13.3 N | 101.0 W |
| 0600Z | 13.8 | 101.6 |
| 1200Z | 14.5 | 102.5 |
| 1800Z | 15.2 | 103.4 |
| 2400Z | 15.8 | 104.1 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | # |
|-------|------------------|--------------------------|-----------------|----|-----|------|---|
| 766 | +93.93 | 02 46 42 | 0335Z | NO | | | |
| 767 | +68.60 | 04 28 29 | 0513Z | NO | | | |
| 773 | -83.34 | 14 39 12 | 1445Z | NO | | | |
| 774 | -108.66 | 16 20 59 | 1623Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

//Orig.

HURRICANE "AGATHA" - 6/4/75 (0000Z-2400Z)



3.2-4

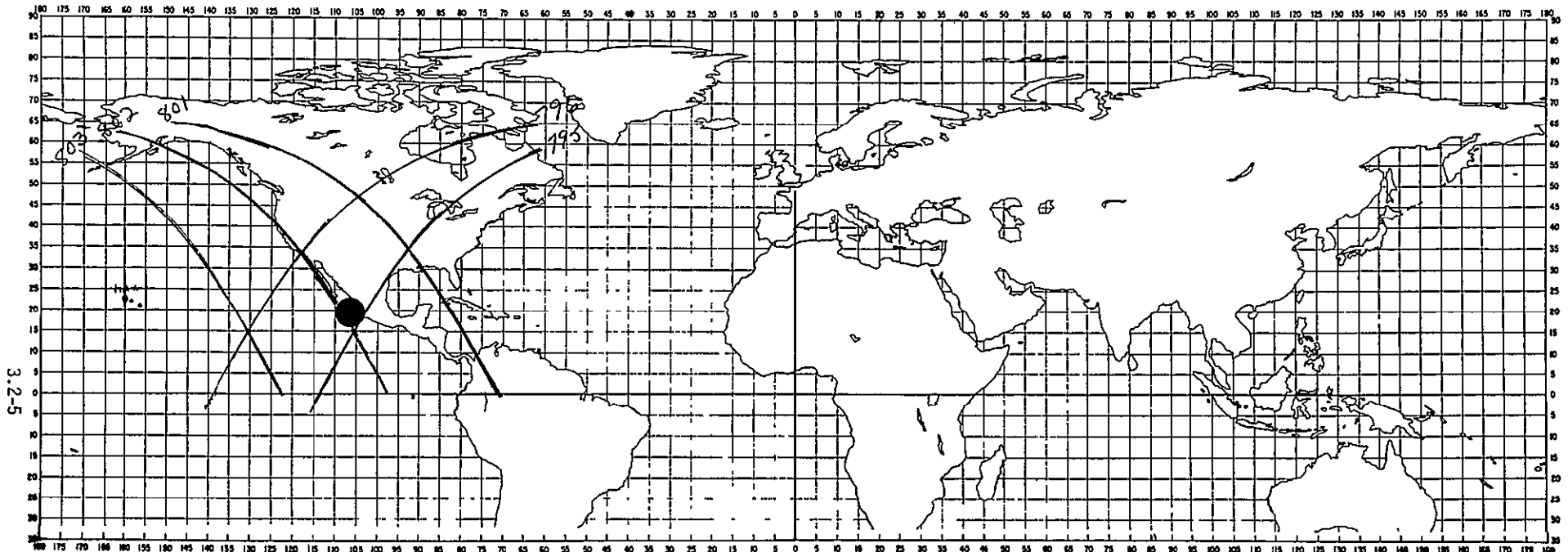
LOCATION

HURRICANE/TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 15.8 N | 104.1 W |
| 0600Z | 16.6 | 104.7 |
| 1200Z | 17.2 | 104.7 |
| 1800Z | 17.8 | 104.9 |
| 2400Z | 18.1 | 105.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq. # |
|-------|------------------|--------------------------|-----------------|----|-----|------|---------|
| 780 | +99.40 | 02 31 42 | 0319Z | NO | | | |
| 781 | +74.08 | 04 13 29 | 0458Z | NO | | | |
| 787 | -77.86 | 14 24 11 | 1432Z | NO | | | |
| 788 | -103.18 | 16 05 58 | 1609Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "AGATHA" - 6/5/75 (0000Z - 2400Z)



LOCATION
TROPICAL STORM/TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 18.1 N | 105.0 W |
| 0600Z | 18.7 | 105.7 |
| 1200Z | 19.0 | 106.2 |
| 1800Z | 19.3 | 106.4 |
| 2400Z | 19.7 | 106.7 |

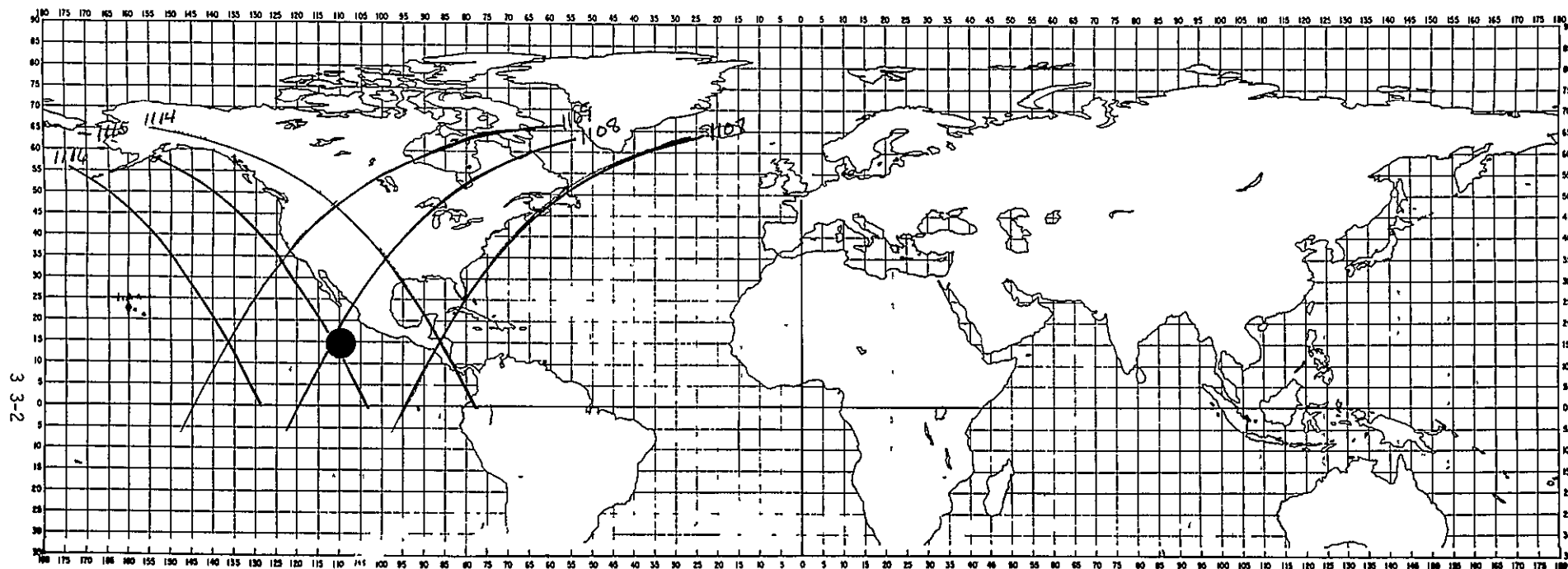
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Ulaig. # |
|-------|------------------|--------------------------|-----------------|----|-----|------|----------|
| 795 | +79.55 | 03 58 28 | 0443Z | NO | | | |
| 796 | +54.23 | 05 40 15 | 0622Z | NO | | | |
| 801 | -72.39 | 14 09 11 | 1419Z | NO | | | |
| 802 | -97.71 | 15 50 58 | 1557Z | NO | | | |
| 803 | -123.04 | 17 32 45 | 1733Z | NO | | | |

STORM: TROPICAL STORM BRIDGETT

DATE: JUNE 27 - JULY 3, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------------------------|
| | | Latitude | Longitude | | | |
| 6/27 | 1800Z | 14.5N | 110.0W | | 30 | Tropical Depression |
| 6/28 | 0000Z | 14.4N | 110.2W | | 30 | Tropical Storm |
| | 0600Z | 14.3 | 110.5 | | 30 | |
| | 1200Z | 14.7 | 111.0 | | 35 | |
| | 1800Z | 15.3 | 111.4 | | 40 | |
| 6/29 | 0000Z | 16.2N | 112.2W | | 40 | Tropical Storm |
| | 0600Z | 16.9 | 113.0 | | 45 | |
| | 1200Z | 17.2 | 113.8 | | 45 | |
| | 1800Z | 17.3 | 114.5 | | 50 | |
| 6/30 | 0000Z | 17.3N | 115.5W | | 50 | Tropical Storm |
| | 0600Z | 17.1 | 116.6 | | 50 | |
| | 1200Z | 16.9 | 117.0 | | 50 | |
| | 1800Z | 16.8 | 117.3 | | 55 | |
| 7/01 | 0000Z | 16.7N | 117.6W | | 45 | Tropical Storm |
| | 0600Z | 16.4 | 118.2 | | 45 | |
| | 1200Z | 16.3 | 118.7 | | 45 | |
| | 1800Z | 15.9 | 119.1 | | 45 | |
| 7/02 | 0000Z | 15.4N | 119.6W | | 40 | Tropical Storm Tropical Depression |
| | 0600Z | 15.2 | 120.2 | | 30 | |
| | 1200Z | 15.0 | 120.7 | | 30 | |
| | 1800Z | 14.8 | 121.2 | | 30 | |
| 7/03 | 0000Z | 14.6N | 121.8W | | 30 | Tropical Depression |
| | 0600Z | 14.4 | 122.5 | | 25 | |
| | 1200Z | ---- | ----- | | -- | |
| | 1800Z | ---- | ----- | | -- | |

TROPICAL STORM "BRIDGETT" 6/27/75 (1800Z-2400Z)

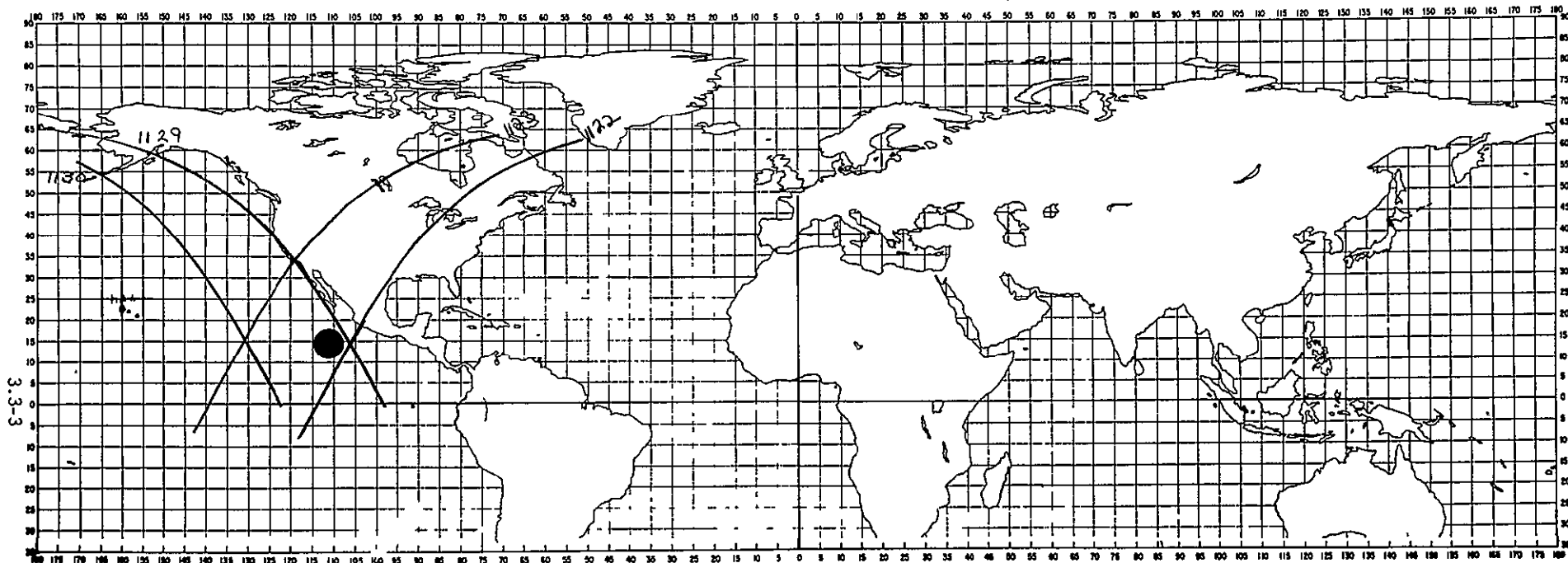


LOCATION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1800Z | 14.5N | 110.0W |
| 2100Z | 14.4 | 110.2 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unig # |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 1107 | +99.66 | 05 15 24 | 0605Z | No | | | |
| 1108 | +73.36 | 06 57 12 | 0747Z | No | | | |
| 1109 | +48.03 | 08 38 59 | 0921Z | No | | | |
| 1114 | -78.58 | 17 07 54 | 1716Z | No | | | |
| 1115 | -103.90 | 18 49 41 | 1854Z | No | | | |
| 1116 | -129.23 | 20 31 28 | 2033Z | No | | | |

TROPICAL STORM "BRIDGETT" - 6/28/75 (0000Z-2400Z)

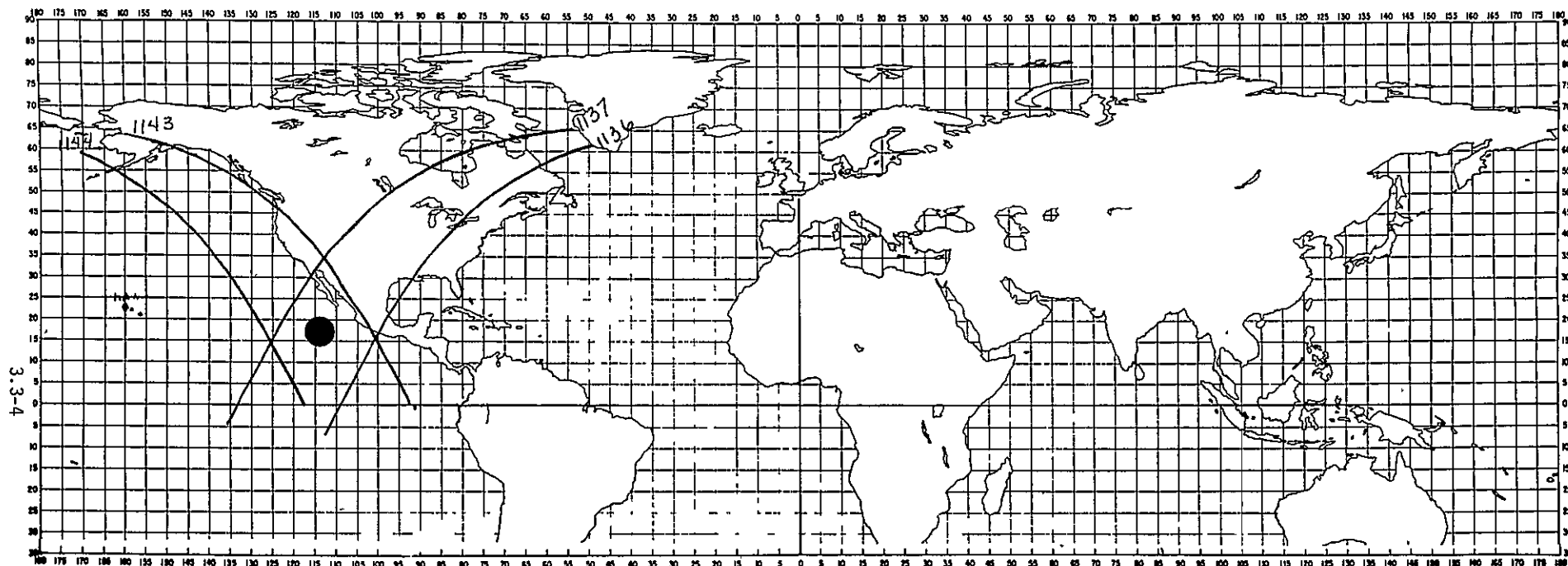


LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 14.4N | 110.2W |
| 0600Z | 14.3 | 110.5 |
| 1200Z | 14.7 | 111.0 |
| 1800Z | 15.3 | 111.4 |
| 2400Z | 16.2 | 112.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq. # |
|-------|------------------|--------------------------|-----------------|----|-----|------|---------|
| 1122 | +78.83 | 06 42 11 | 0729Z | NO | | | |
| 1123 | +53.51 | 08 23 58 | 0907Z | NO | | | |
| 1129 | -98.43 | 18 34 41 | 1840Z | NO | | | |
| 1130 | -123.76 | 20 16 28 | 2019Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "BRIDGETT" - 6/29/75 (0000Z - 2400Z)



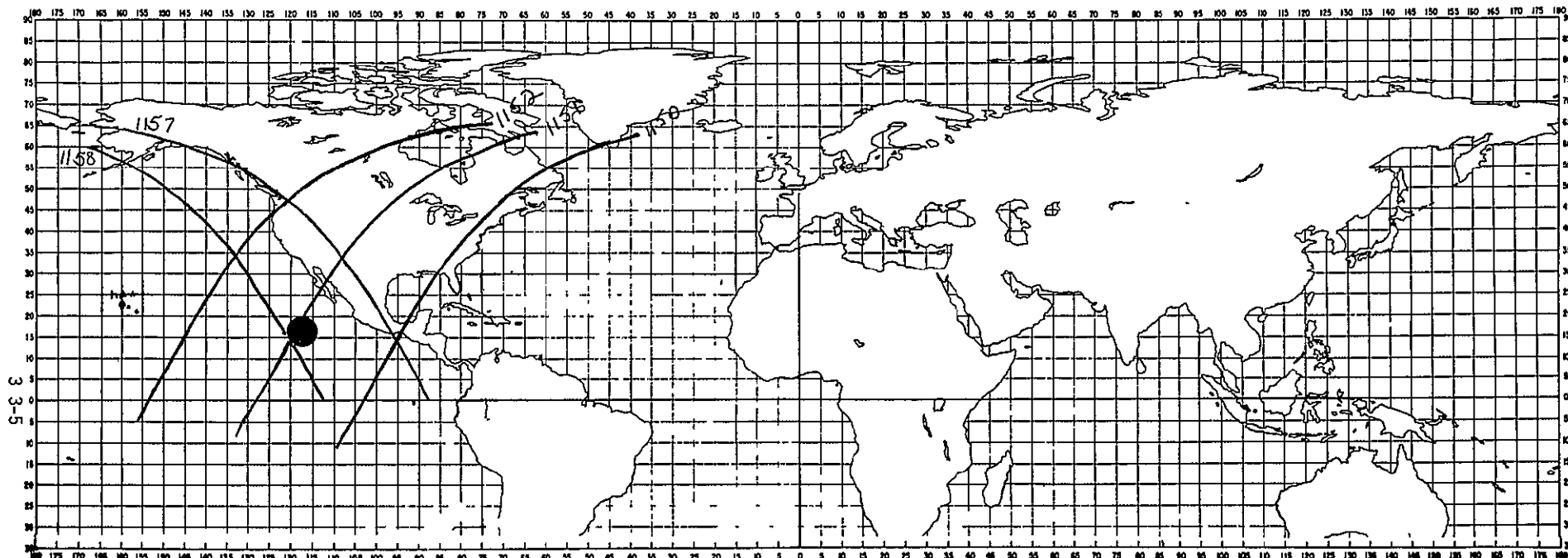
LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.2N | 112.2W |
| 0600Z | 16.9 | 113.0 |
| 1200Z | 17.2 | 113.8 |
| 1800Z | 17.3 | 114.5 |
| 2400Z | 17.3 | 155.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | GN | OFF | Mode | # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|---|
| 1136 | +84.31 | 06 27 10 | 0715Z | NO | | | |
| 1137 | +58.98 | 08 08 58 | 0953Z | 094115 | 095346 | 803 | - |
| 1143 | -92.96 | 18 19 40 | 1827Z | NO | | | |
| 1144 | -118.28 | 20 01 27 | 2004Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

(Unig.)

TROPICAL STORM "BRIDGETT" - 6/30/75 (0000Z-2400Z)



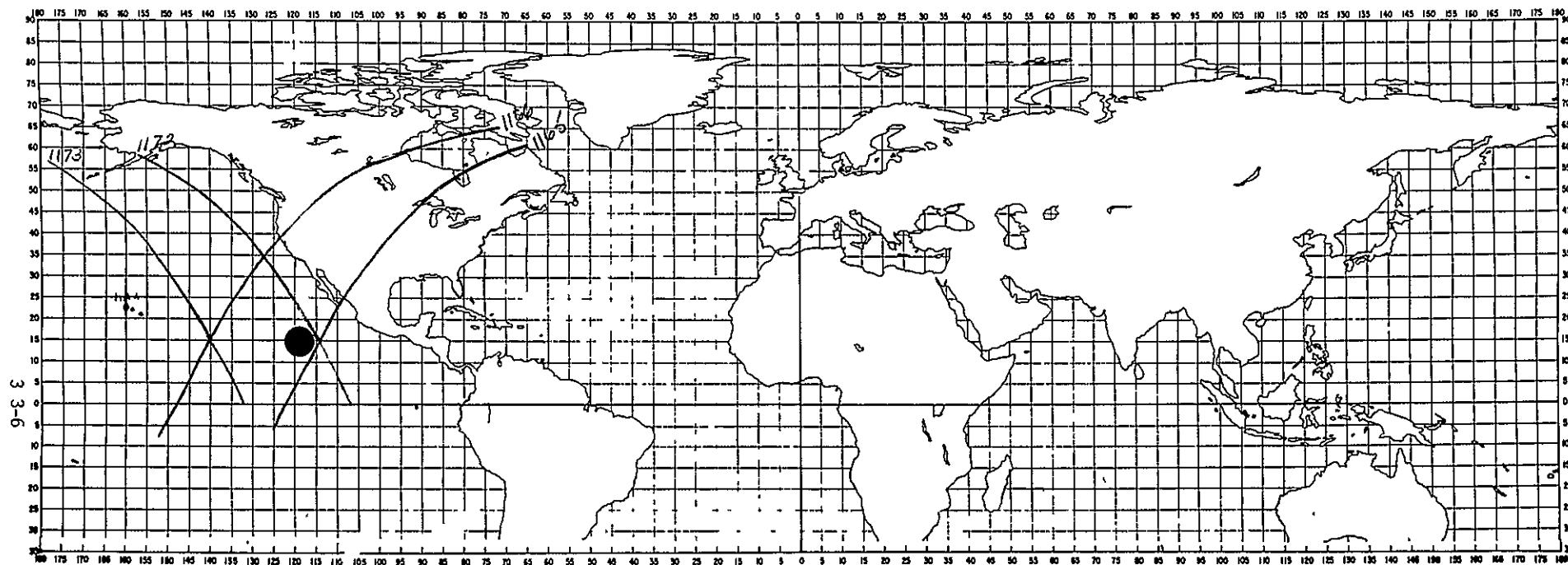
LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 17.3N | 115.5W |
| 0600Z | 17.1 | 116.5 |
| 1200Z | 16.9 | 117.0 |
| 1800Z | 16.8 | 117.3 |
| 2400Z | 16.7 | 117.6 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|---|
| 1150 | +89.78 | 06 12 10 | 0701Z | 0650/2 | 0700/4 | 803 | - |
| 1151 | +64.45 | 07 53 57 | 0839Z | NO | | | |
| 1152 | +39.13 | 09 35 44 | 0918Z | NO | | | |
| 1157 | -87.48 | 18 04 39 | 1812Z | NO | | | |
| 1158 | -112.81 | 19 46 27 | 1951Z | NO | | | |

11/19.

TROPICAL STORM "BRIDGETT" - 7/1/75 (0000Z - 2400Z)

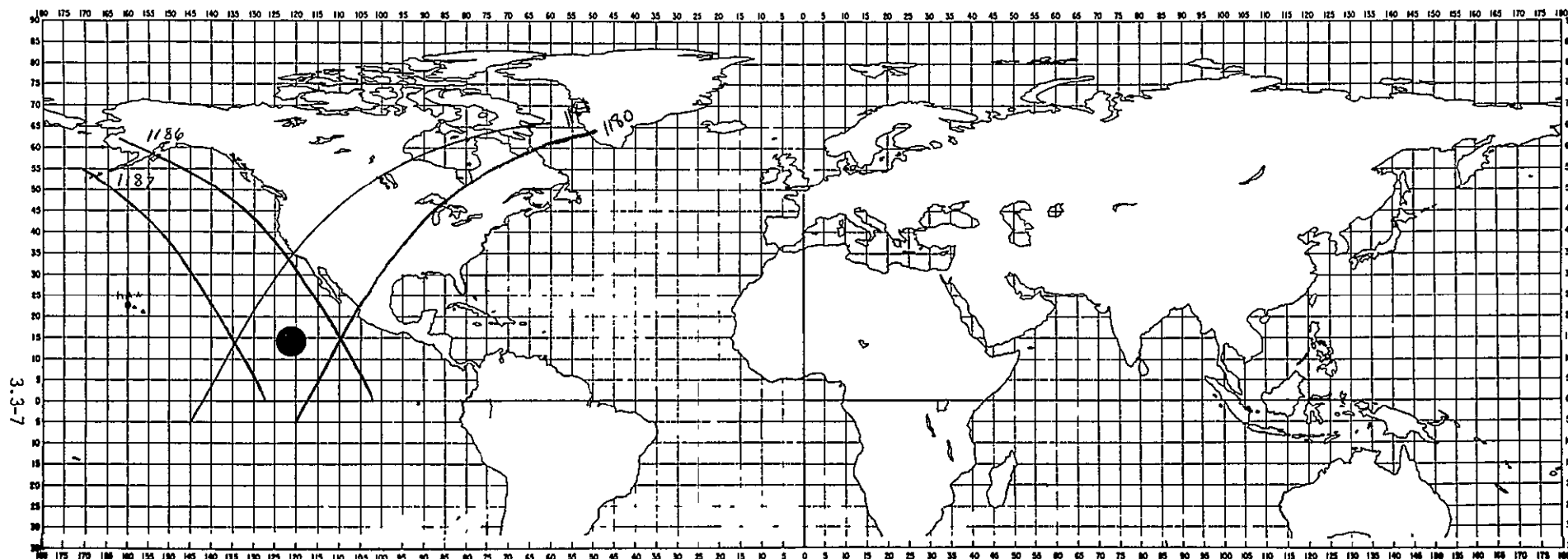


LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.7 N | 117.6 W |
| 0600Z | 16.4 | 118.2 |
| 1200Z | 16.3 | 118.7 |
| 1800Z | 15.9 | 119.1 |
| 2400Z | 15.4 | 119.6 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unig # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 1165 | +69 9.3 | 07 38 56 | 0826Z | 081557 | 082603 | 803 | - |
| 1166 | +44 60 | 09 20 44 | 1004Z | NO | | | |
| 1172 | -107.33 | 19 31 26 | 1935Z | NO | | | |
| 1173 | -132.66 | 21 13 13 | 2115Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "BRIDGETT" - 7/2/75 (0000Z-2400Z)

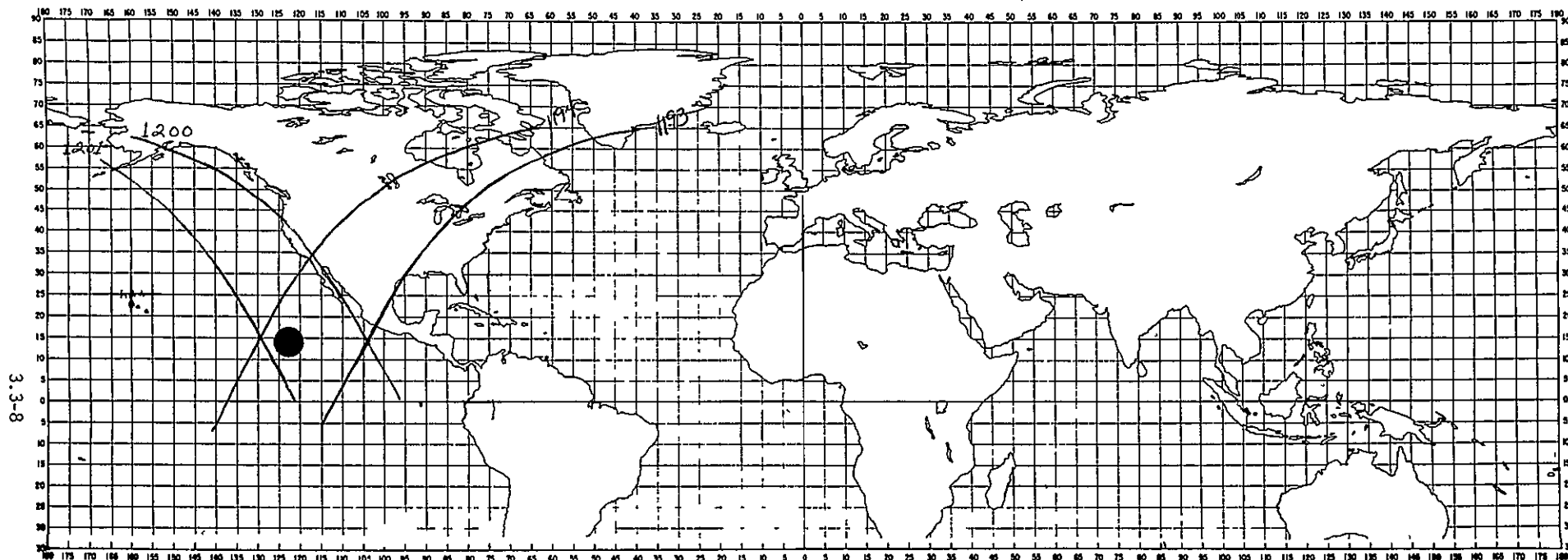


LOCATION TROPICAL STORM / TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 15.4N | 119.6W |
| 0600Z | 15.2 | 120.2 |
| 1200Z | 15.0 | 120.7 |
| 1800Z | 14.8 | 121.2 |
| 2400Z | 14.6 | 121.8 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq. # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|---------|
| 1180 | +50.08 | 09 05 43 | 0951Z | NO | | | |
| 1181 | +24.76 | 10 47 30 | 1127Z | 112030 | 112642 | 803 | 115 |
| 1186 | -101.86 | 19 16 25 | 1922Z | 192010 | 193559 | 803 | 120 |
| 1187 | -127.18 | 20 58 13 | 2101Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "BRIDGETT" - 7/3/75 (0000Z - 0600Z)



LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 14.6 N | 121.8 W |
| 0600Z | 14.4 | 122.5 |
| — | — | — |
| — | — | — |
| — | — | — |
| — | — | — |

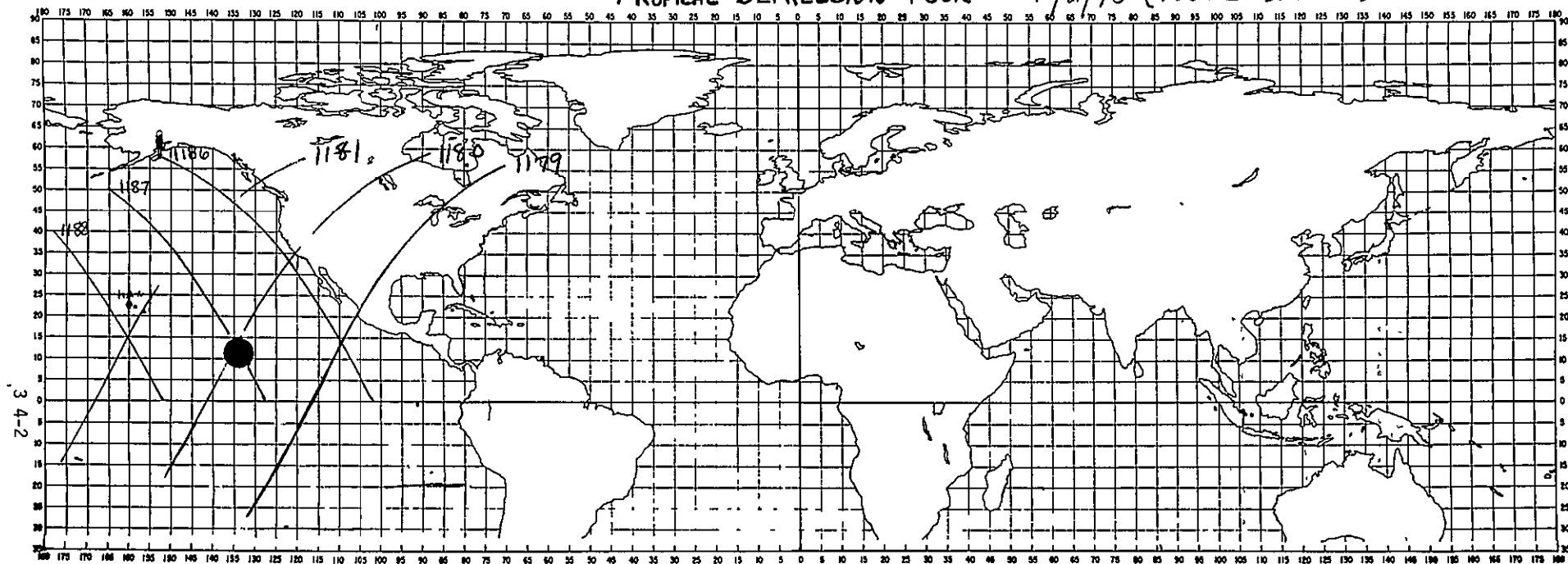
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq. # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|---------|
| 1193 | +86.88 | 07 08 55 | 0758Z | NO | | | |
| 1194 | +55.55 | 08 50 42 | 0836Z | NO | | | |
| 1200 | -96.39 | 19 01 25 | 1908Z | NO | | | |
| 1201 | -121.71 | 20 43 12 | 2047Z | 205050 | 205727 | 803 | 134 |
| | | | | | | | |
| | | | | | | | |

STORM: TROPICAL DEPRESSION FOUR

DATE: JULY 2 - JULY 3, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 7/02 | 1800Z | 11.7N | 134.3W | | 25 | Tropical Depression |
| 7/03 | 0000Z | 11.5N | 135.5W | | 25 | Tropical Depression |
| | 0600Z | 10.8 | 136.1 | | 25 | |
| | 1200Z | 10.5 | 136.5 | | 25 | |
| | 1800Z | ---- | ---- | | -- | |

TROPICAL DEPRESSION FOUR - 7/2/75 (1800Z-2400Z)

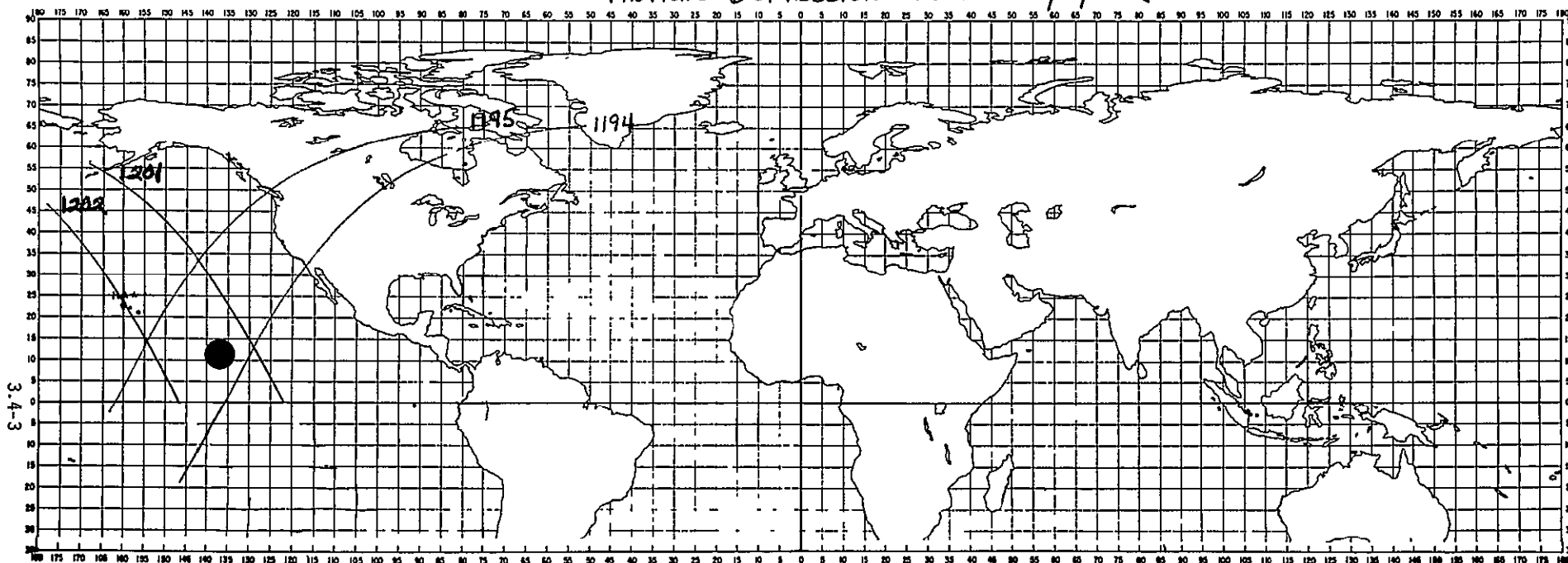


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1800Z | 11.7N | 134.3W |
| 2400Z | 11.5 | 135.5 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 1179 | +75.40 | 07 23 56 | 0814Z | No | | | |
| 1180 | +50.08 | 09 05 43 | 0953Z | No | | | |
| 1181 | +24.76 | 10 47 30 | 1131Z | No | | | |
| 1186 | -101.86 | 19 16 26 | 1923Z | 192010 | 193559 | 803 | 120 |
| 1187 | -127.18 | 20 58 13 | 2101Z | No | | | |
| 1188 | -152.51 | 22 40 00 | 2240Z | No | | | |

TROPICAL DEPRESSION FOUR - 7/3/75 (0000Z - 1800Z)



LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 11.5N | 135.5W |
| 0600Z | 10.8 | 136.1 |
| 1200Z | 10.5 | 136.5 |
| 1800Z | -- | -- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 1194 | +56.56 | 08 50 42 | 0939Z | No | | | |
| 1195 | +30.23 | 10 32 30 | 1117Z | No | | | |
| 1201 | -121.71 | 20 43 12 | 2048Z | 205050 | 205727 | 803 | 134 |
| 1202 | -147.03 | 22 24 59 | 2227Z | No | | | |
| | | | | | | | |
| | | | | | | | |

STORM: HURRICANE CARLOTTA

DATE: JULY 2 - JULY 11, 1975

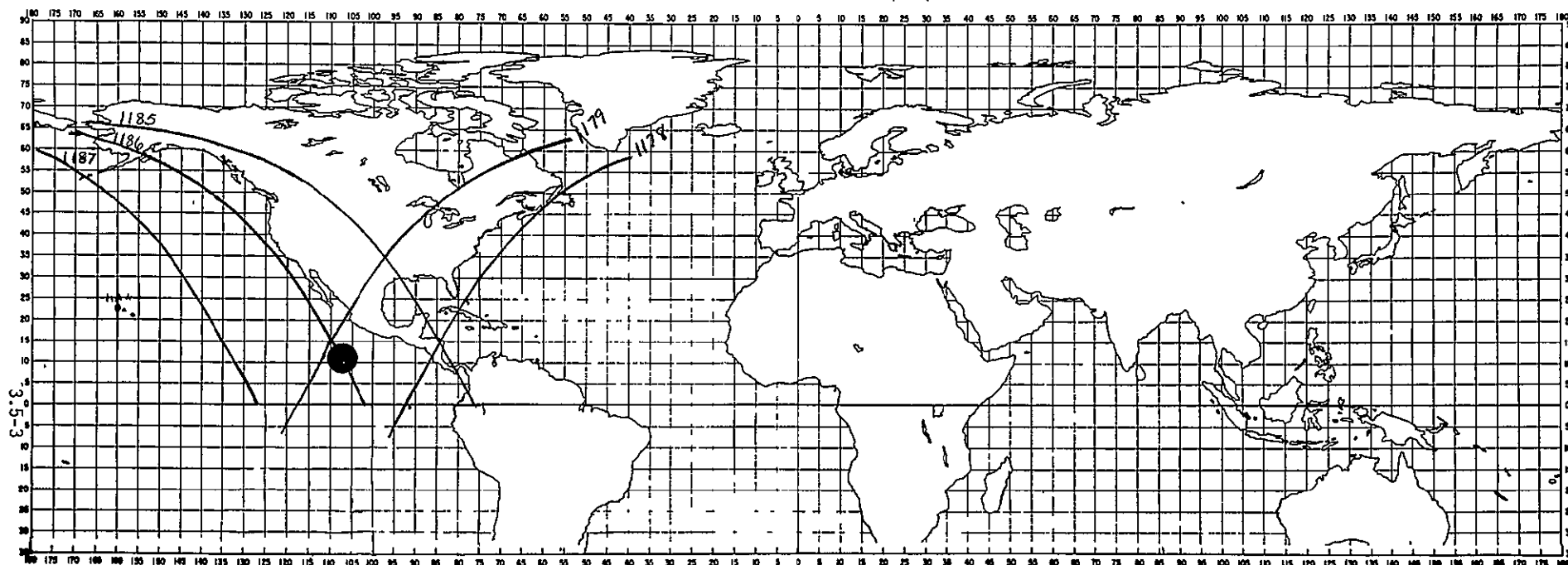
| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|----------|----------|-----------|---------------|------------|---------------------------------------|
| | | Latitude | Longitude | | | |
| 7/2 | 0600Z | 10.8N | 101.0W | | 25 | Tropical Depression Tropical Storm |
| | 1200Z | 11.1 | 102.5 | | 25 | |
| | 1800Z | 11.4 | 103.4 | | 35 | |
| 7/3 | 0000Z | 11.9N | 104.3W | | 40 | Tropical Storm Hurricane |
| | 0600Z | 12.3 | 105.2 | | 45 | |
| | 1200Z | 12.8 | 106.1 | | 45 | |
| | 1800Z | 13.2 | 107.0 | | 65 | |
| 7/4 | 0000Z | 13.6N | 107.6W | | 70 | Hurricane |
| | 0600Z | 14.1 | 108.7 | | 75 | |
| | 1200Z | 14.7 | 109.8 | | 85 | |
| | 1800Z | 15.2 | 110.7 | | 90 | |
| 7/5 | 0000Z | 15.8N | 111.7W | | 100 | Hurricane |
| | 0600Z | 16.3 | 112.7 | | 105 | |
| | 1200Z | 16.7 | 113.5 | | 110 | |
| | 1800Z | 17.1 | 114.5 | | 100 | |
| 7/6 | 0000Z | 17.3N | 115.3W | | 110 | Hurricane |
| | 0600Z | 17.4 | 116.3 | | 110 | |
| | 1200Z | 17.4 | 117.2 | | 100 | |
| | 1800Z | 17.4 | 117.9 | | 100 | |
| 7/7 | 0000Z | 17.4N | 118.6W | | 95 | Hurricane |
| | 0600Z | 17.4 | 119.5 | | 90 | |
| | 1200Z | 17.4 | 120.2 | | 75 | |
| | 1800Z | 17.4 | 120.7 | | 65 | |
| 7/8 | 0000Z | 17.4N | 121.3W | | 60 | Tropical Storm |
| | 0600Z | 17.4 | 121.9 | | 50 | |
| | 1200Z | 17.5 | 122.8 | | 45 | |
| | 1800Z | 17.5 | 123.6 | | 45 | |
| 7/9 | 0000Z | 17.5N | 124.2W | | 40 | Tropical Depression |
| | 0600Z | 17.6 | 125.1 | | 35 | |
| | 1200Z | 17.9 | 126.0 | | 35 | |
| | 1800Z | 18.2 | 126.7 | | 17.5 | |

STORM: HURRICANE CARLOTTA (CONT.)

DATE: JULY 2 - JULY 11, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 7/10 | 0000Z | 18.4N | 127.3W | | 30 | Tropical Depression |
| | 0600Z | 18.6 | 128.1 | | 30 | |
| | 1200Z | 18.8 | 129.0 | | 25 | |
| | 1800Z | 18.8 | 130.0 | | 25 | |
| 7/11 | 0000Z | 19.0N | 130.9W | | 25 | Tropical Depression |
| | 0600Z | ---- | ---- | | -- | |
| | 1200Z | ---- | ---- | | -- | |
| | 1800Z | ---- | ---- | | -- | |

HURRICANE "CARLOTTA" - 7/2/75 (0600Z-2400Z)

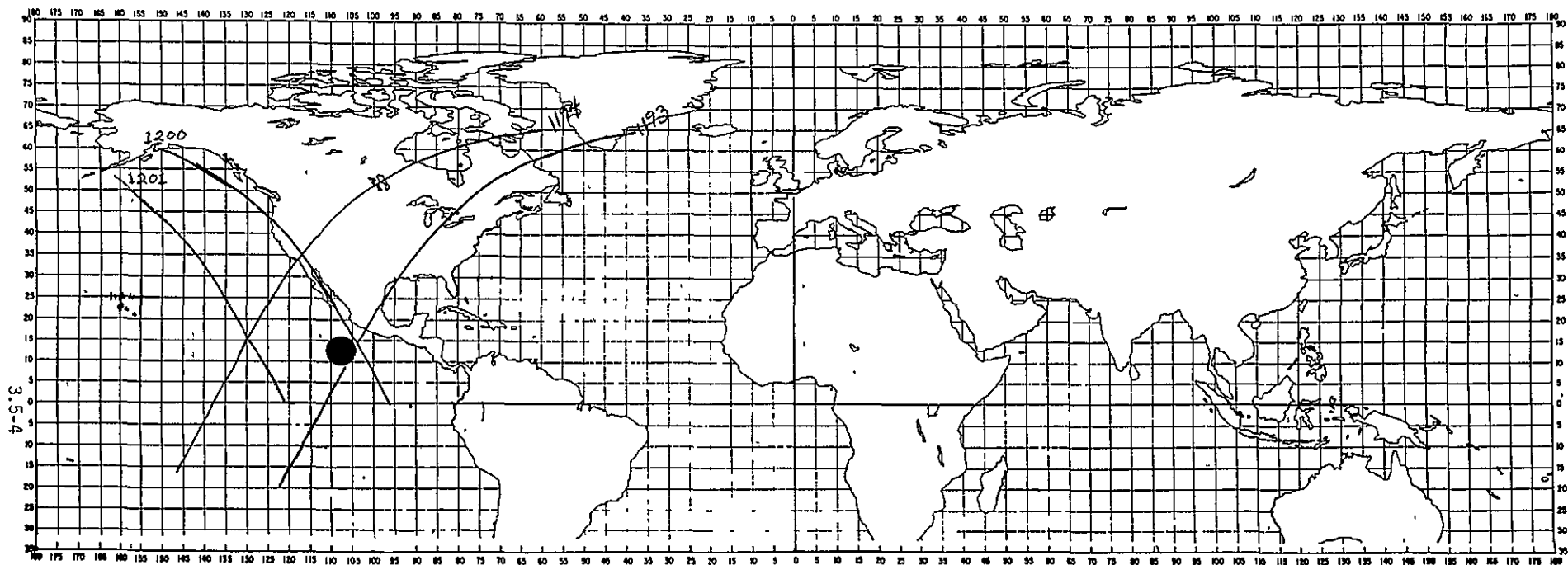


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0600Z | 10.8N | 101.0W |
| 1200Z | 11.1 | 102.5 |
| 1800Z | 11.4 | 103.4 |
| 2400Z | 11.9 | 104.3 |
| — | — | — |
| — | — | — |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQU # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|---------|
| 1178 | +100.72 | 05 42 09 | 0632Z | NO | | | |
| 1179 | +75.40 | 07 23 56 | 0811Z | NO | | | |
| 1185 | -76.54 | 17 34 38 | 1741Z | 173840 | 174400 | 802 | 119 |
| 1186 | -101.86 | 19 16 25 | 1919Z | 192010 | 193557 | 803 | 120 |
| 1187 | -127.18 | 20 58 13 | 2059Z | NO | | | |
| | | | | | | | |

HURRICANE "CARLOTTA" - 7/3/75 (0000Z-2400Z)

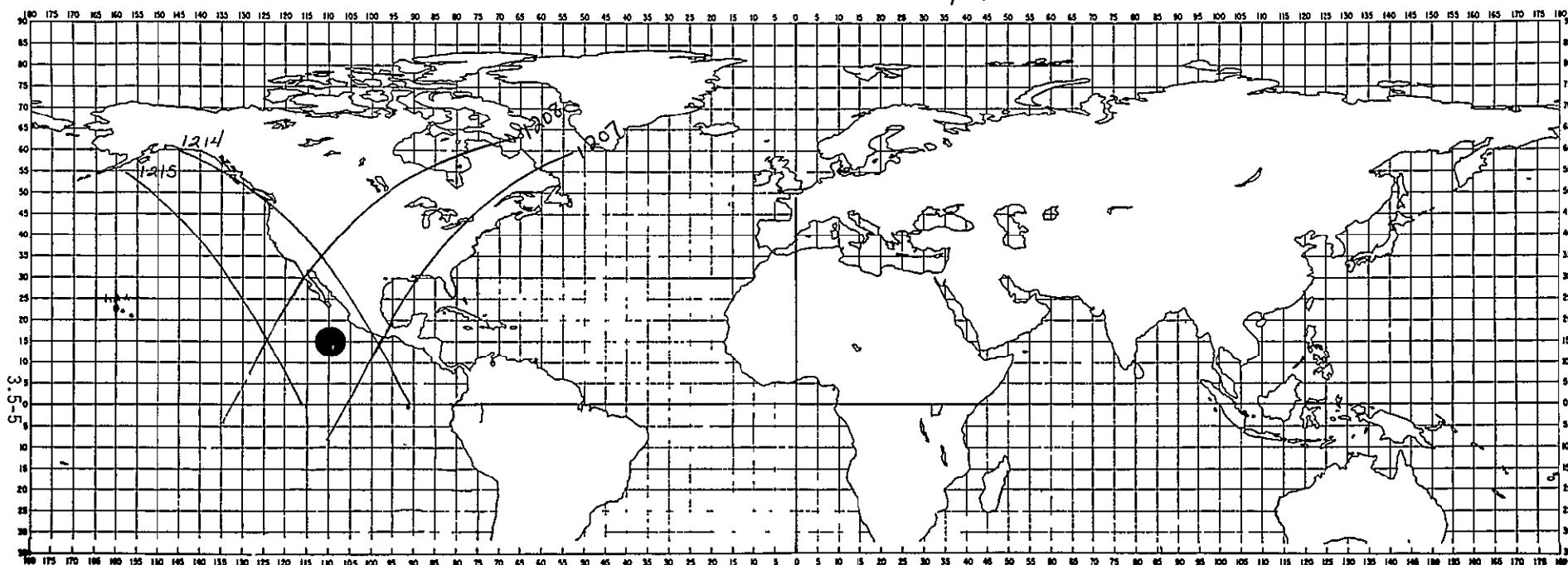


LOCATION TROPICAL STORM/HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 11.9 N | 104.3 W |
| 0600Z | 12.3 | 105.2 |
| 1200Z | 12.8 | 106.1 |
| 1800Z | 13.2 | 107.0 |
| 2400Z | 13.6 | 107.6 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Model/Unit # |
|-------|------------------|--------------------------|-----------------|--------|--------|--------------|
| 1193 | +80.88 | 07 08 55 | 0756Z | NO | | |
| 1194 | +55.55 | 08 50 42 | 0934Z | 093221 | 093551 | 803 126 |
| 1200 | -96.39 | 19 01 25 | 1906Z | NO | | |
| 1201 | -121.71 | 20 43 12 | 2045Z | NO | | |
| | | | | | | |
| | | | | | | |

HURRICANE "CARLOTTA" - 7/4/75 (0000Z-2400Z)

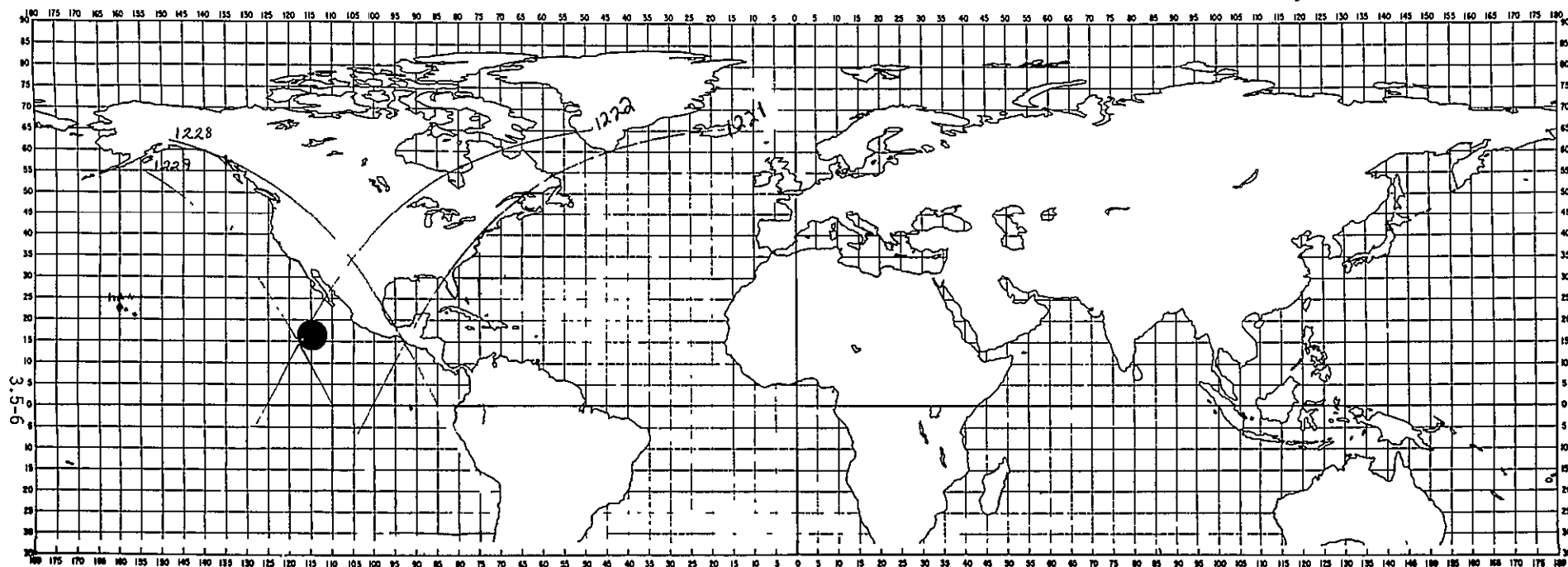


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 13.6 N | 107.6 W |
| 0600Z | 14.1 | 108.7 |
| 1200Z | 14.7 | 109.8 |
| 1800Z | 15.2 | 110.7 |
| 2400Z | 15.8 | 111.7 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Uniq Made # |
|-------|------------------|--------------------------|-----------------|----|-----|----------------|
| 1207 | +86.35 | 06 53 55 | 0742Z | NO | | |
| 1208 | +61.03 | 08 35 42 | 0820Z | NO | | |
| 1214 | -90.91 | 18 46 24 | 1852Z | NO | | |
| 1215 | -116.23 | 20 28 11 | 2031Z | NO | | |
| | | | | | | |
| | | | | | | |

HURRICANE "CARLOTTA" - 7/5/75 (0000Z-2400Z)



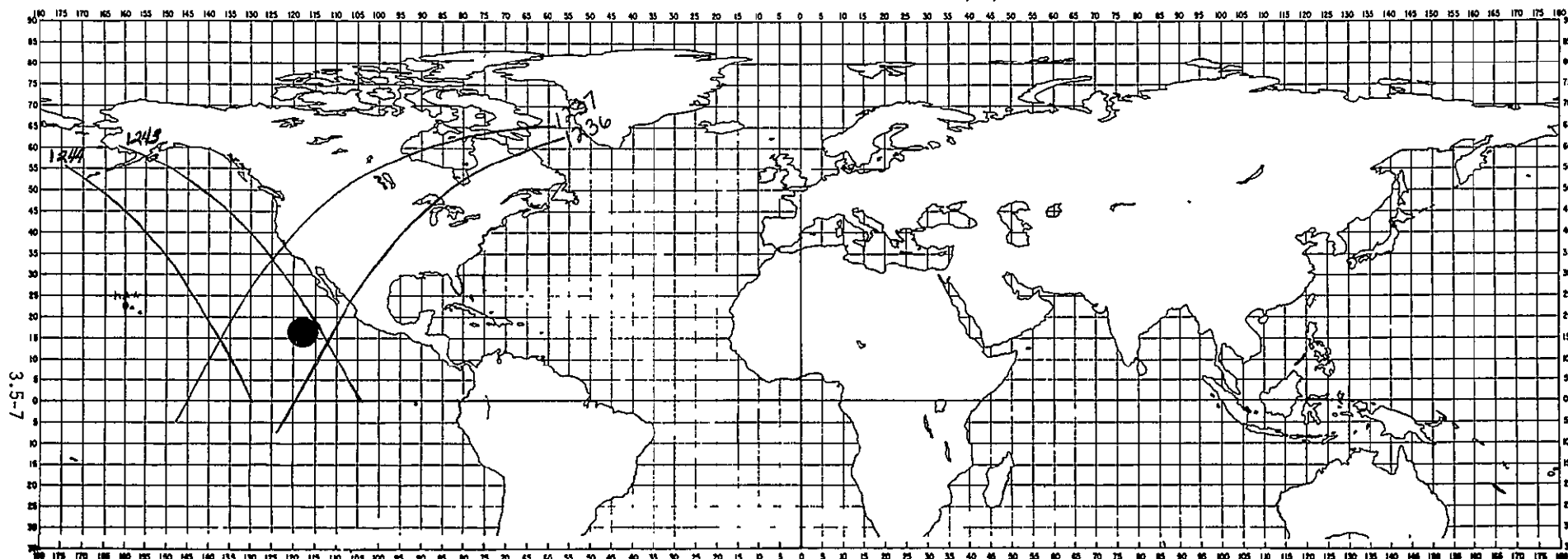
LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 15.8N | 111.7W |
| 0600Z | 16.3 | 112.7 |
| 1200Z | 16.7 | 113.5 |
| 1800Z | 17.1 | 114.5 |
| 2400Z | 17.3 | 115.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-----|
| 1221 | +91.82 | 06 38 54 | 0627Z | NO | | | |
| 1222 | +66.50 | 08 20 41 | 0806Z | NO | | | |
| 1228 | -85.44 | 18 31 24 | 1839Z | NO | | | |
| 1229 | -110.76 | 20 13 11 | 2018Z | 201718 | 203123 | 803 | 153 |
| | | | | | | | |
| | | | | | | | |

Uniq.

HURRICANE "CARLOTTA" - 7/6/75 (0000Z-2400Z)



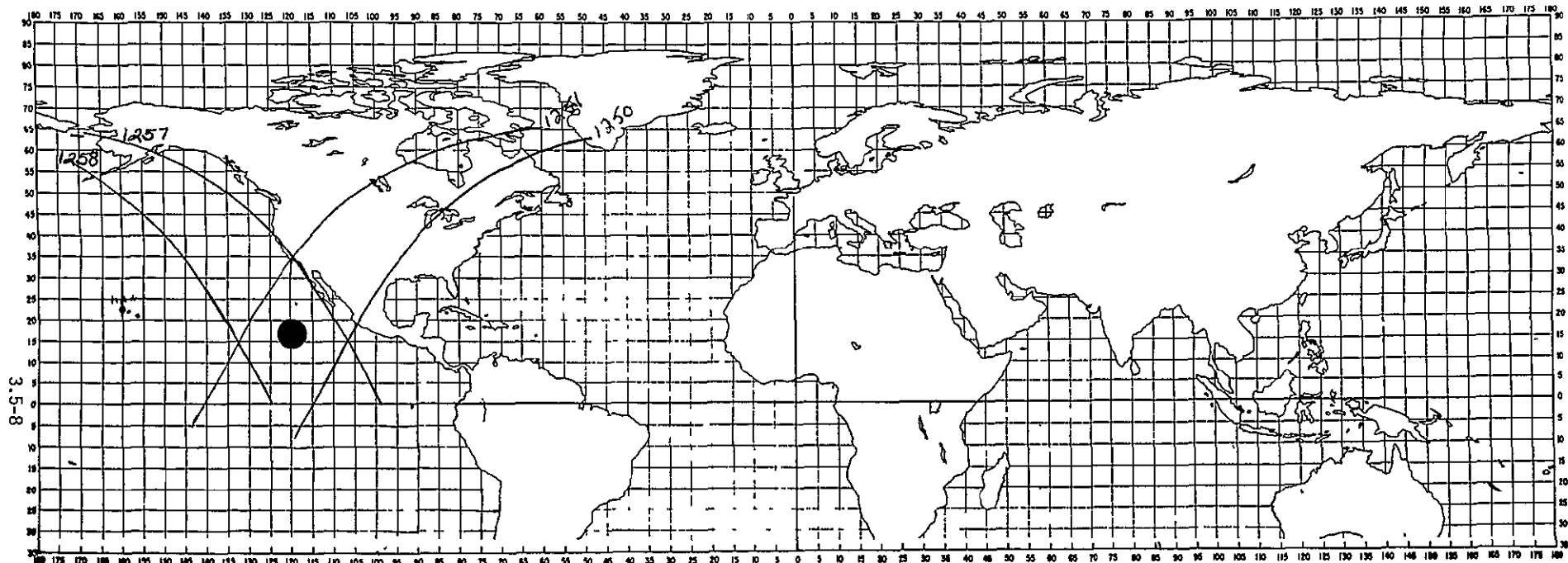
LOCATION

HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 17.3N | 115.3W |
| 0600Z | 17.4 | 116.3 |
| 1200Z | 17.4 | 117.2 |
| 1800Z | 17.4 | 117.9 |
| 2400Z | 17.4 | 118.6 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Host | Uniq # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 1236 | +71.97 | 08 05 41 | 0853Z | NO | | | |
| 1237 | +46.65 | 09 47 28 | 1030Z | 102633 | 103120 | 803 | 158 |
| 1243 | -105.29 | 19 58 10 | 2014Z | 200332 | 201732 | 803 | 162 |
| 1244 | -130.61 | 21 39 57 | 2142Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "CARLOTTA" - 7/7/75 (0000Z - 2400Z)



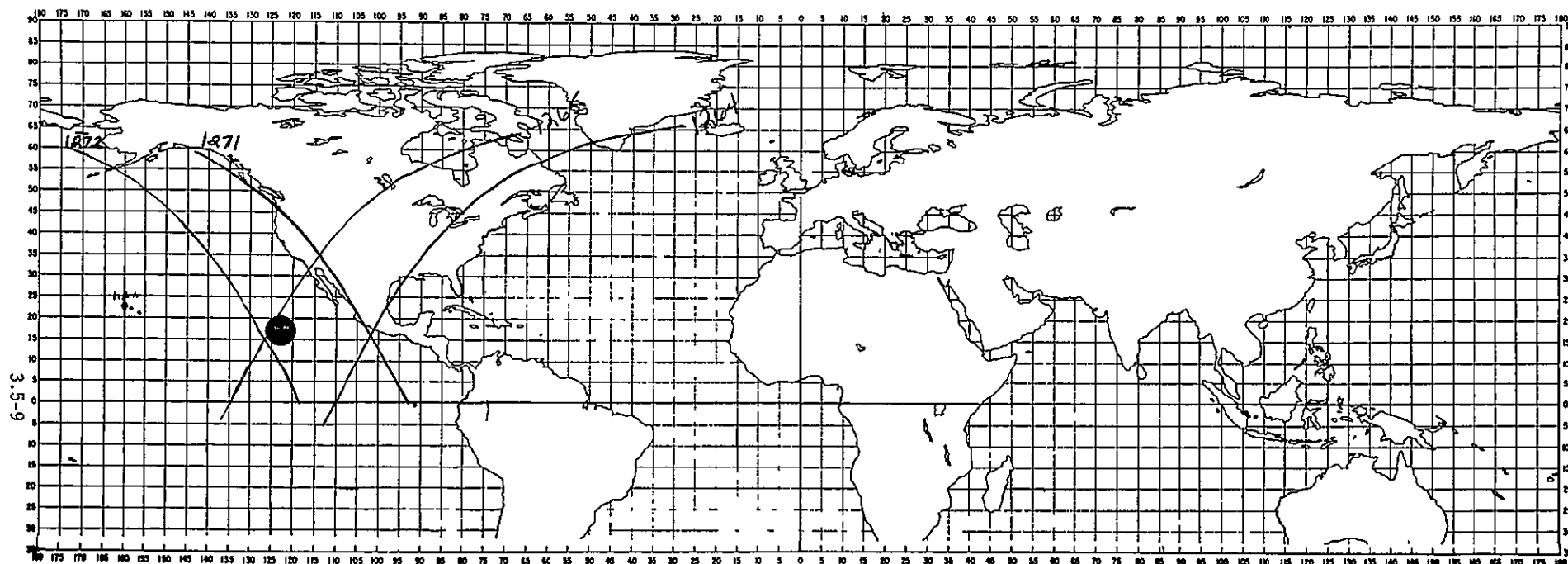
LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 17.4N | 118.6W |
| 0600Z | 17.4 | 119.5 |
| 1200Z | 17.4 | 120.2 |
| 1800Z | 17.4 | 120.7 |
| 2400Z | 17.4 | 121.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | # |
|-------|------------------|--------------------------|-----------------|----|-----|------|---|
| 1250 | +77.45 | 07 50 40 | 0838Z | NO | | | |
| 1251 | +52.12 | 09 32 27 | 1014Z | NO | | | |
| 1257 | -99.82 | 19 43 10 | 1950Z | NO | | | |
| 1258 | -125.14 | 21 24 57 | 2128Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

U019

HURRICANE "CARLOTTA"- 7/8/75 (0000Z-2400Z)

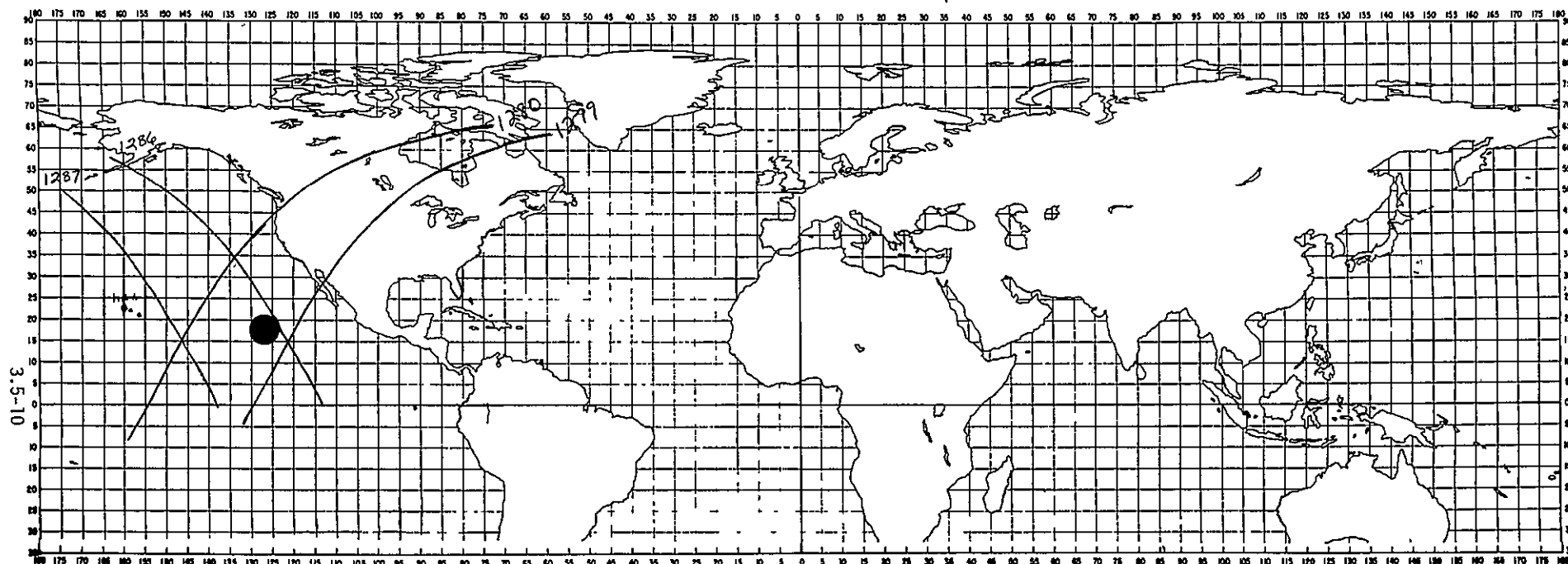


LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 17.4N | 121.3W |
| 0600Z | 17.4 | 121.9 |
| 1200Z | 17.5 | 122.8 |
| 1800Z | 17.5 | 123.6 |
| 2400Z | 17.5 | 124.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Height | Uoig # |
|-------|------------------|--------------------------|-----------------|--------|--------|--------|--------|
| 1264 | +82.92 | 07 35 40 | 08 24 Z | NO | | | |
| 1265 | +57.60 | 09 17 27 | 10 03 Z | 094658 | 100420 | 803 | 173 |
| 1271 | -94.34 | 19 28 09 | 19 36 Z | 193244 | 194619 | 803 | 179 |
| 1272 | -119.67 | 21 09 56 | 21 14 Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "CARLOTTA" - 7/9/75 (0000Z - 2400Z)

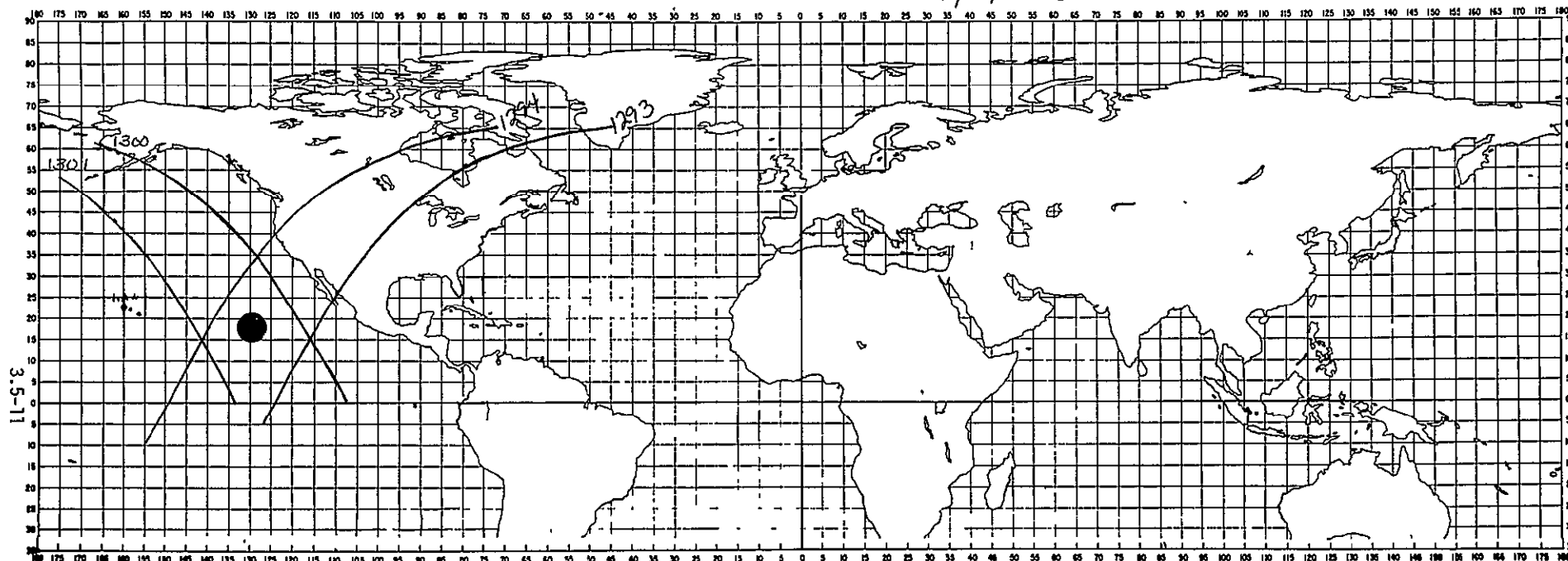


LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 17.5N | 124.2W |
| 0600Z | 17.6 | 125.1 |
| 1200Z | 17.9 | 126.0 |
| 1800Z | 18.2 | 126.7 |
| 2400Z | 18.4 | 127.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Uniq. Made # |
|-------|------------------|--------------------------|-----------------|--------|--------|--------------|
| 1279 | +63.07 | 09 02 26 | 0949Z | 093352 | 094841 | 803 185 |
| 1280 | +37.75 | 10 44 13 | 1117Z | 111357 | 112041 | 803 186 |
| 1286 | -114.19 | 20 54 56 | 2101Z | NO | | |
| 1287 | -139.52 | 22 36 43 | 2240Z | NO | | |
| | | | | | | |
| | | | | | | |

HURRICANE "CARLOTTA" - 7/10/75 (0000Z-2400Z)



| LOCATION TROPICAL DEPRESSION | | |
|---------------------------------|----------|-----------|
| TIME | LATITUDE | LONGITUDE |
| 0000Z | 18.4N | 127.3W |
| 0600Z | 18.6 | 128.1 |
| 1200Z | 18.8 | 129.0 |
| 1800Z | 18.8 | 130.0 |
| 2400Z | 19.0 | 130.9 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Unig. Mode # |
|-------|------------------|--------------------------|-----------------|----|-----|--------------|
| 1293 | +68.55 | 08 47 25 | 0934Z | NO | | |
| 1294 | +43.22 | 10 29 13 | 1113Z | NO | | |
| 1300 | -108.72 | 20 39 55 | 2047Z | NO | | |
| 1301 | -134.04 | 22 21 42 | 2225Z | PO | | |
| | | | | | | |
| | | | | | | |

STORM: HURRICANE DENISE

DATE: JULY 4 - JULY 15, 1975

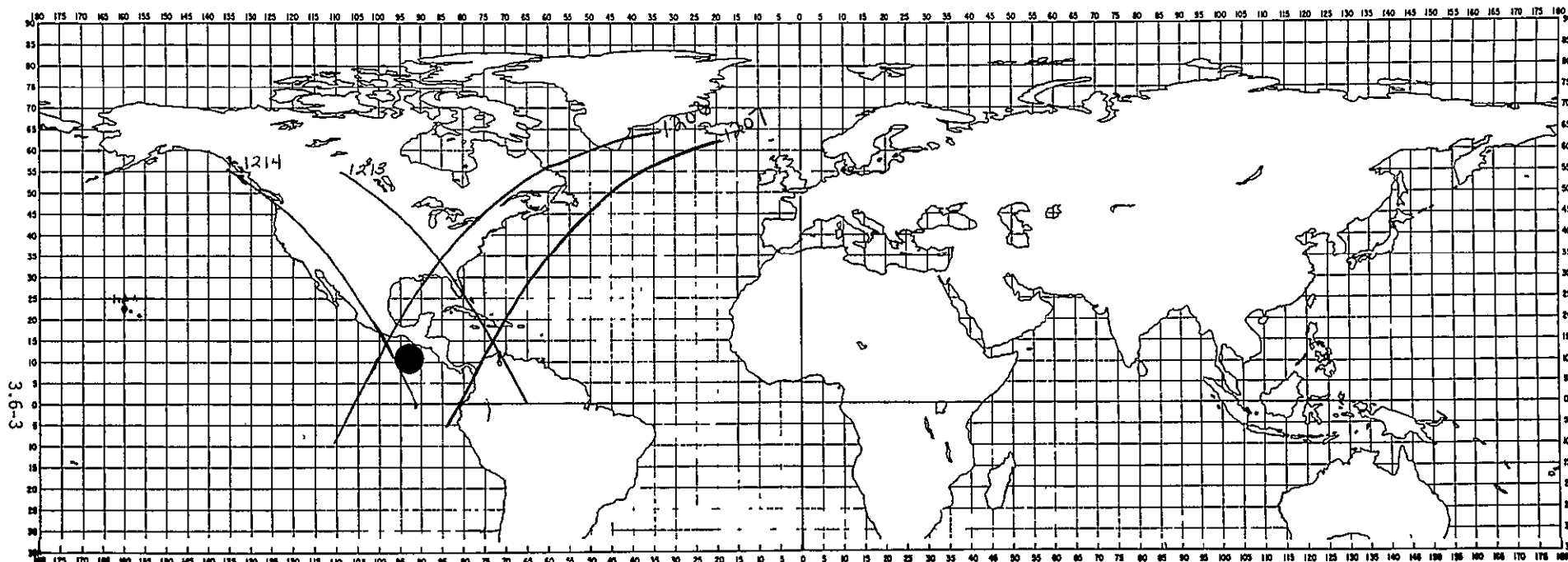
| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 7/4 | 1800Z | 11.0N | 093.0W | | 30 | Tropical Depression |
| 7/5 | 0000Z | 10.8N | 094.4W | | 30 | Tropical Depression |
| | 0600Z | 10.6 | 096.0 | | 30 | |
| | 1200Z | 10.7 | 097.8 | | 30 | |
| | 1800Z | 10.9 | 098.9 | | 30 | |
| 7/6 | 0000Z | 11.3N | 099.6W | | 30 | Tropical Depression |
| | 0600Z | 11.9 | 100.1 | | 30 | |
| | 1200Z | 12.3 | 100.5 | | 30 | |
| | 1800Z | 12.9 | 100.9 | | 30 | |
| 7/7 | 0000Z | 13.3N | 101.3W | | 40 | Tropical Storm |
| | 0600Z | 13.9 | 101.8 | | 45 | |
| | 1200Z | 14.2 | 102.2 | | 50 | Hurricane |
| | 1800Z | 14.6 | 102.8 | | 65 | |
| 7/8 | 0000Z | 15.0N | 103.4W | | 75 | Hurricane |
| | 0600Z | 15.3 | 103.8 | | 85 | |
| | 1200Z | 15.7 | 104.3 | | 95 | |
| | 1800Z | 15.9 | 105.1 | | 105 | |
| 7/9 | 0000Z | 16.0N | 106.0W | | 110 | Hurricane |
| | 0600Z | 16.0 | 107.1 | | 115 | |
| | 1200Z | 16.0 | 108.1 | | 120 | |
| | 1800Z | 15.5 | 109.4 | | 115 | |
| 7/10 | 0000Z | 14.9N | 110.4W | | 110 | Hurricane |
| | 0600Z | 14.3 | 111.2 | | 100 | |
| | 1200Z | 13.4 | 112.6 | | 95 | |
| | 1800Z | 13.7 | 112.2 | | 90 | |
| 7/11 | 0000Z | 14.0N | 112.5W | | 85 | Hurricane |
| | 0600Z | 14.2 | 113.0 | | 85 | |
| | 1200Z | 14.8 | 113.8 | | 80 | |
| | 1800Z | 15.6 | 114.3 | | 80 | |

STORM: HURRICANE DENISE (CONT.)

DATE: JULY 4 - JULY 15, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 7/12 | 0000Z | 16.5N | 114.9W | | 75 | Hurricane |
| | 0600Z | 17.2 | 115.5 | | 70 | |
| | 1200Z | 17.9 | 116.3 | | 70 | |
| | 1800Z | 18.5 | 117.2 | | 65 | |
| 7/13 | 0000Z | 19.4N | 118.3W | | 65 | Hurricane |
| | 0600Z | 19.6 | 118.5 | | 65 | Tropical Storm |
| | 1200Z | 19.7 | 118.7 | | 55 | |
| | 1800Z | 20.0 | 118.9 | | 45 | |
| 7/14 | 0000Z | 20.1N | 119.0W | | 40 | Tropical Storm |
| | 0600Z | 20.3 | 119.1 | | 40 | Tropical Depression |
| | 1200Z | 20.4 | 119.2 | | 35 | |
| | 1800Z | 20.6 | 119.2 | | 30 | |
| 7/15 | 0000Z | 20.8N | 119.0W | | 25 | Tropical Depression |
| | 0600Z | ---- | ---- | | -- | |
| | 1200Z | ---- | ---- | | -- | |
| | 1800Z | ---- | ---- | | -- | |

HURRICANE "DENISE" - 7/4/75 (1800Z-2400Z)

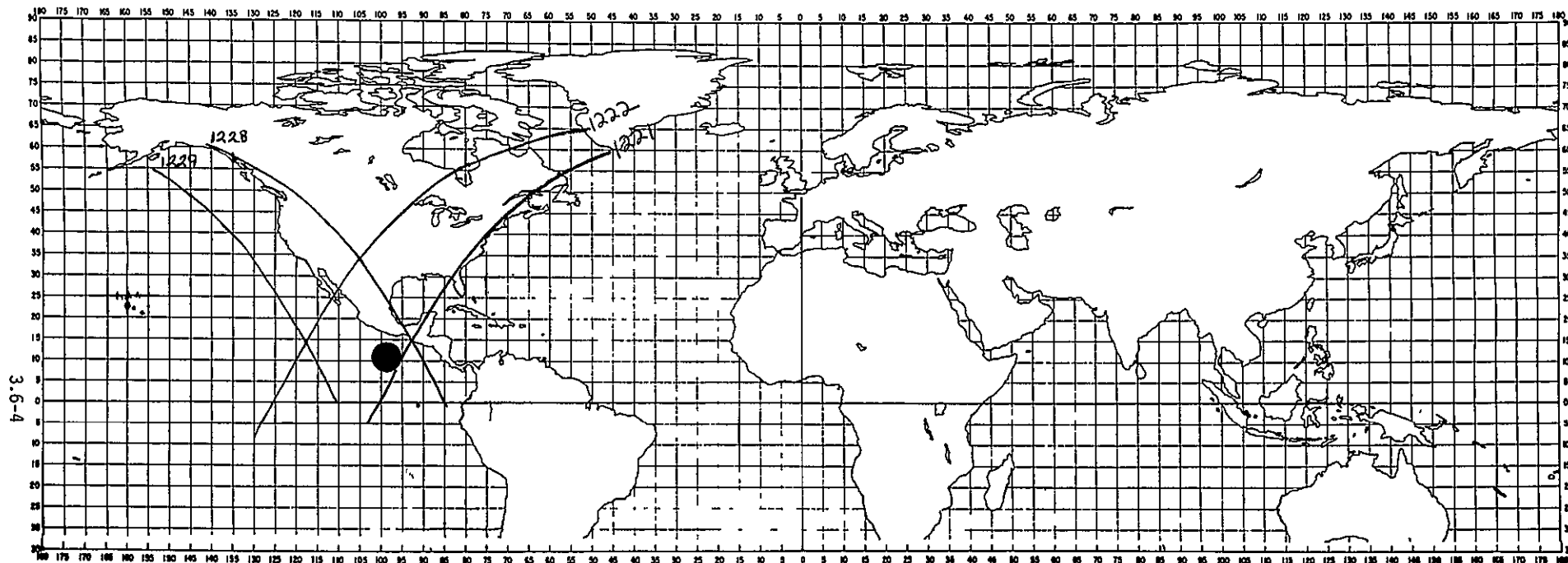


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1800Z | 11.0N | 93.0W |
| 2400Z | 10.8 | 94.4 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode # | 11019 |
|-------|------------------|--------------------------|-----------------|--------|--------|--------|-------|
| 1206 | +111.67 | 05 12 08 | 0602Z | NO | | | |
| 1207 | +86.35 | 06 53 55 | 0741Z | NO | | | |
| 1213 | -65.59 | 17 04 37 | 1711Z | 171013 | 171236 | 802 | 142 |
| 1214 | -90.91 | 18 46 24 | 1849Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "DENISE" - 7/5/75 (0000Z-2400Z)

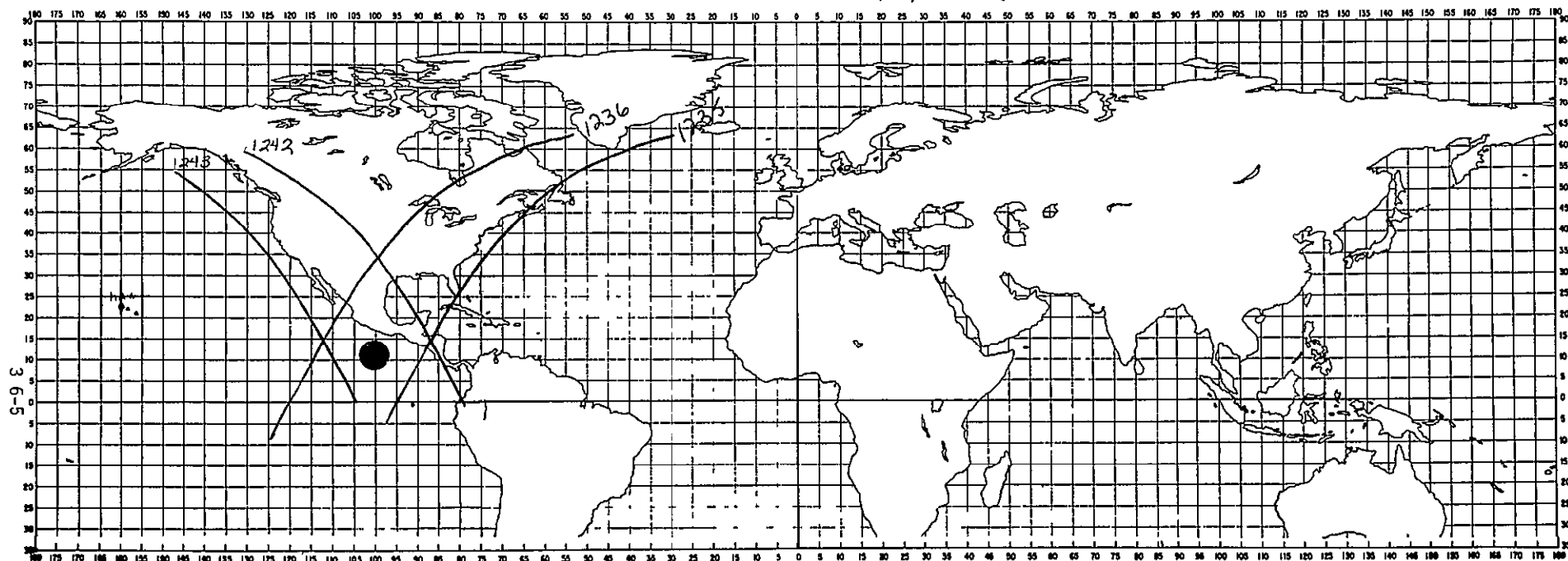


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 10.8N | 94.4W |
| 0600Z | 10.6 | 96.0 |
| 1200Z | 10.7 | 97.8 |
| 1800Z | 10.9 | 98.9 |
| 2400Z | 11.3 | 99.6 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq. # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|---------|
| 1221 | +91.82 | 06 38 54 | 0727Z | NO | | | |
| 1222 | +66.50 | 08 20 41 | 0806Z | NO | | | |
| 1228 | -85.44 | 18 31 24 | 1836Z | NO | | | |
| 1229 | -110.76 | 20 13 11 | 2015Z | 201718 | 203122 | 803 | 153 |
| | | | | | | | |
| | | | | | | | |

HURRICANE "DENISE"- 7/6/75-(0000Z-2400Z)



LOCATION

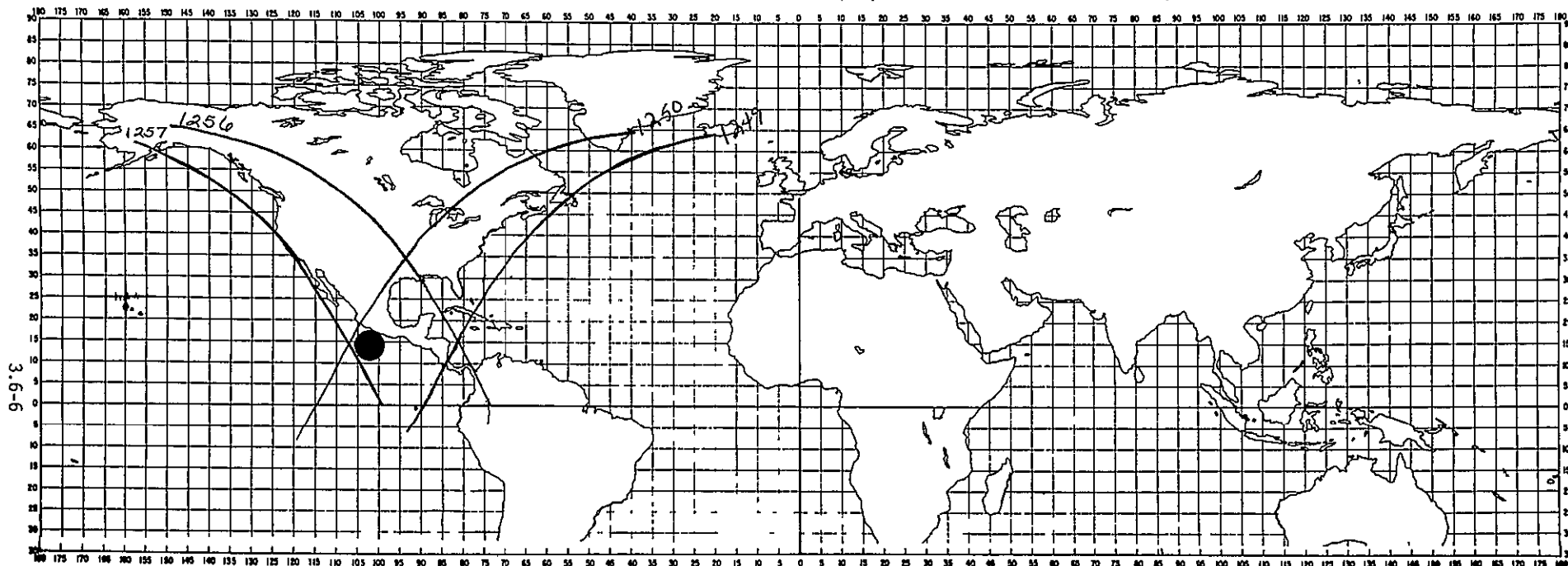
TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 11.3N | 99.6W |
| 0600Z | 11.9 | 100.1 |
| 1200Z | 12.3 | 100.5 |
| 1800Z | 12.9 | 100.9 |
| 2400Z | 13.3 | 101.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Node # |
|-------|------------------|--------------------------|-----------------|--------|--------|---------|
| 1235 | +97.29 | 06 23 54 | 0712Z | 070000 | 071639 | 802 157 |
| 1236 | +71.97 | 08 05 41 | 0851Z | NO | | |
| 1242 | -79.97 | 18 16 23 | 1822Z | NO | | |
| 1243 | -105.29 | 19 58 10 | 2001Z | NO | | |
| | | | | | | |
| | | | | | | |

Uniq.

HURRICANE "DENISE"-7/7/75 (0000Z-2400Z)



LOCATION

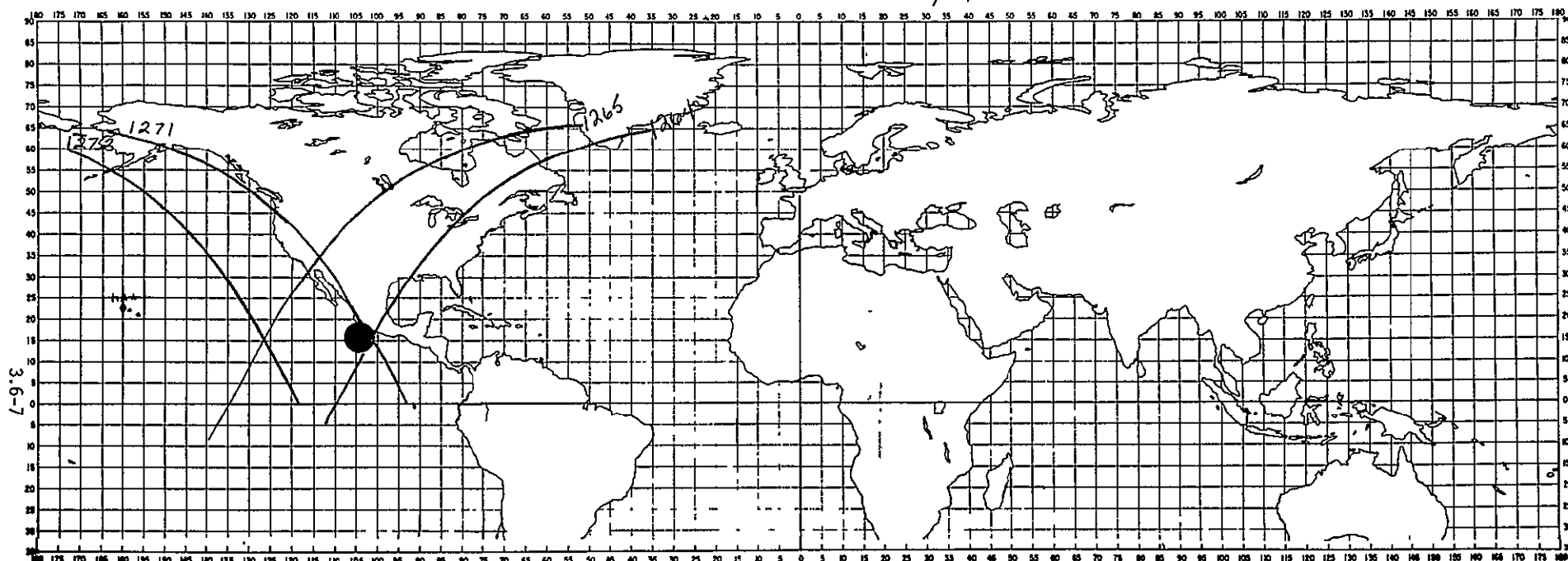
TROPICAL STORM/EXTRATROPICAL/HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 13.3N | 101.3W |
| 0600Z | 13.9 | 101.8 |
| 1200Z | 14.2 | 102.2 |
| 1800Z | 14.6 | 102.8 |
| 2400Z | 15.0 | 103.4 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-----|
| 1249 | +102.77 | 06 08 53 | 0657Z | NO | | | |
| 1250 | +77.45 | 07 50 40 | 0834Z | 082812 | 083359 | 803 | — |
| 1256 | -74.50 | 18 01 23 | 1809Z | 180725 | 182511 | 803 | 168 |
| 1257 | -99.82 | 19 43 10 | 1947Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

11/1/75

HURRICANE "DENISE"- 7/8/75 (0000Z- 00Z)

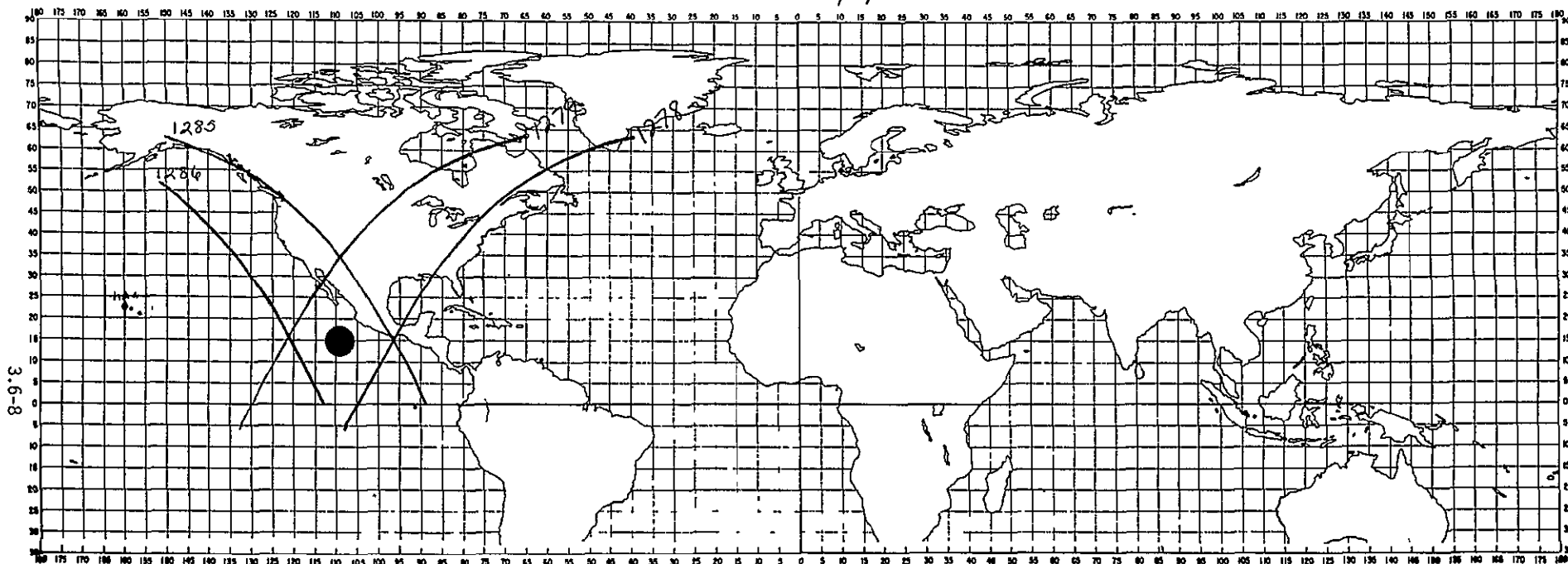


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 15.0N | 103.4W |
| 0600Z | 15.3 | 103.8 |
| 1200Z | 15.7 | 104.3 |
| 1800Z | 15.9 | 105.1 |
| 2400Z | 16.0 | 106.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unig. # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|---------|
| 1264 | +82.92 | 07 35 40 | 0822Z | NO | | | |
| 1265 | +57.60 | 09 17 27 | 1000Z | 094658 | 100420 | 803 | 173 |
| 1271 | -94.34 | 19 28 09 | 1933Z | 193244 | 194619 | 803 | 179 |
| 1272 | -119.67 | 21 09 57 | 2113Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "DENISE"- 7/9/75 (0000Z-2400Z)



LOCATION

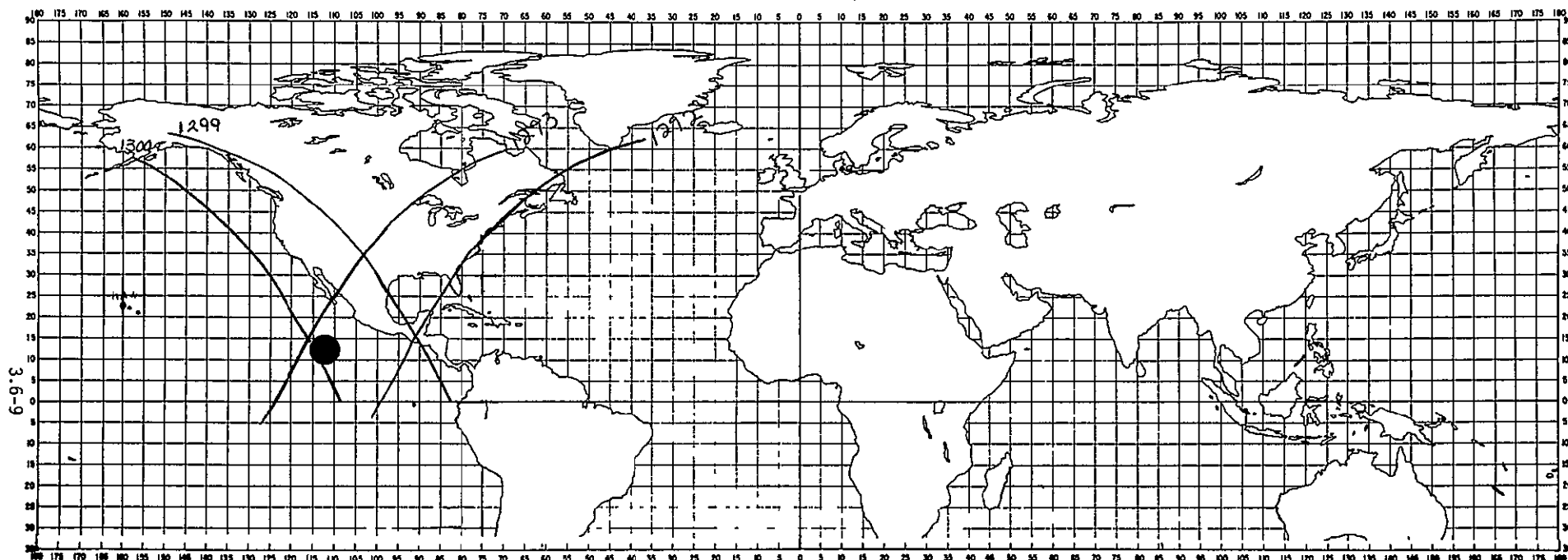
HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.0N | 106.0W |
| 0600Z | 16.0 | 107.1 |
| 1200Z | 16.0 | 108.1 |
| 1800Z | 15.5 | 109.4 |
| 2400Z | 14.9 | 110.4 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Made | #1 |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-----|
| 1278 | +88.39 | 07 20 39 | 0808Z | 075558 | 080848 | 803 | 183 |
| 1279 | +63.07 | 09 02 26 | 0946Z | 093352 | 094841 | 803 | 185 |
| 1285 | -88.87 | 19 13 09 | 1919Z | No | | | |
| 1286 | -114.19 | 20 54 56 | 2057Z | No | | | |
| | | | | | | | |
| | | | | | | | |

Unit

HURRICANE "DENISE" - 7/10/75 (0000Z-2400Z)



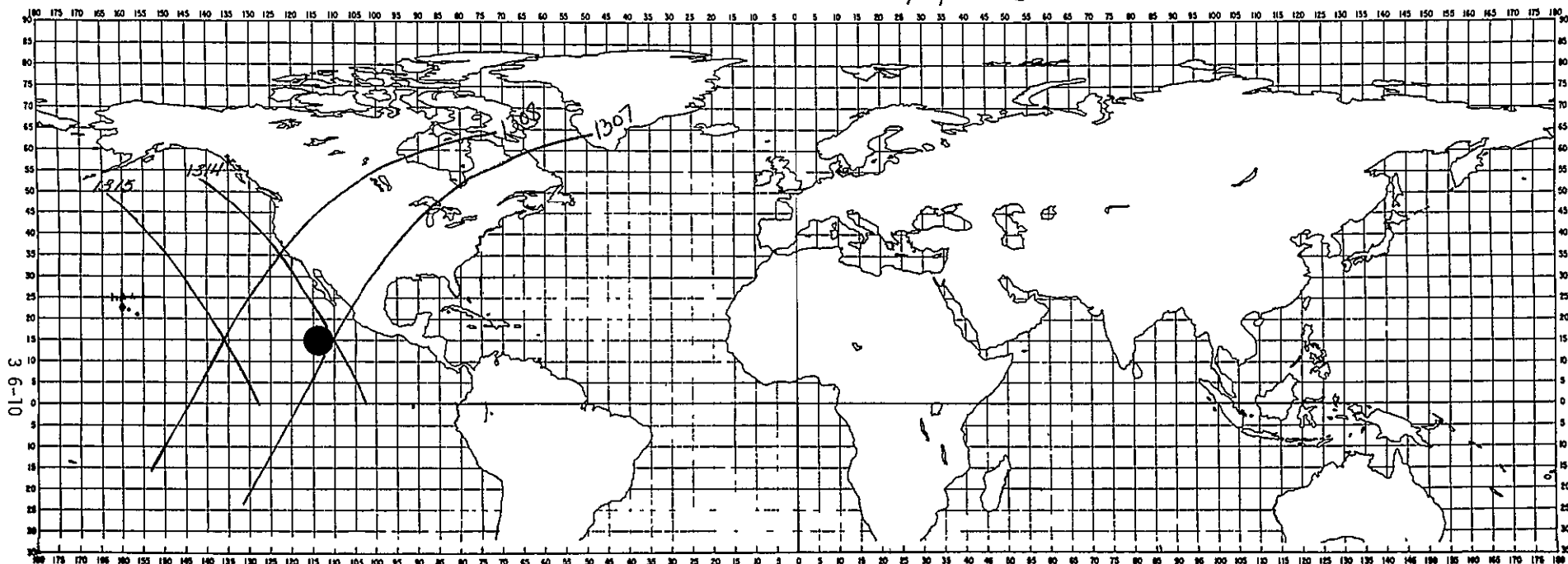
LOCATION

HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 14.9N | 110.4W |
| 0600Z | 14.3 | 111.2 |
| 1200Z | 13.4 | 112.6 |
| 1800Z | 13.7 | 112.2 |
| 2400Z | 14.0 | 112.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Model | Unit |
|-------|------------------|--------------------------|-----------------|--------|--------|-------|------|
| 1292 | +93.87 | 07 05 38 | 0754Z | No | | | |
| 1293 | +68.55 | 08 47 25 | 0934Z | No | | | |
| 1299 | -83.40 | 18 58 08 | 1905Z | 190447 | 192052 | 803 | 198 |
| 1300 | -108.72 | 20 32 55 | 2043Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "DENISE" - 7/11/75 (0000Z-2400Z)

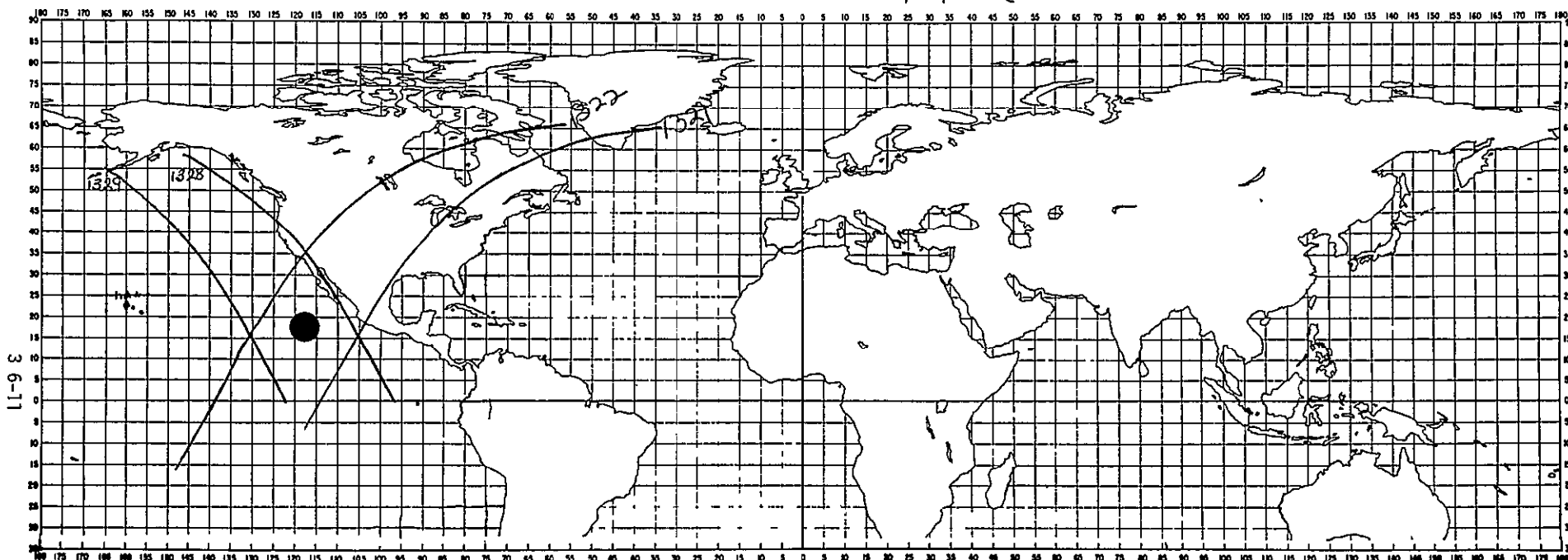


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 14.0N | 112.56' |
| 0600Z | 14.2 | 113.0 |
| 1200Z | 14.8 | 113.8 |
| 1800Z | 15.6 | 114.3 |
| 2400Z | 16.5 | 114.9 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unig. # |
|-------|------------------|--------------------------|-----------------|----|-----|------|---------|
| 1307 | +74.02 | 08 32 25 | 0919Z | NO | | | |
| 1308 | +48.69 | 10 14 12 | 1057Z | NO | | | |
| 1314 | -103.24 | 20 24 54 | 2030Z | NO | | | |
| 1315 | -128.57 | 22 06 42 | 2209Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "DENISE" - 7/12/75 (0000Z-2400Z)

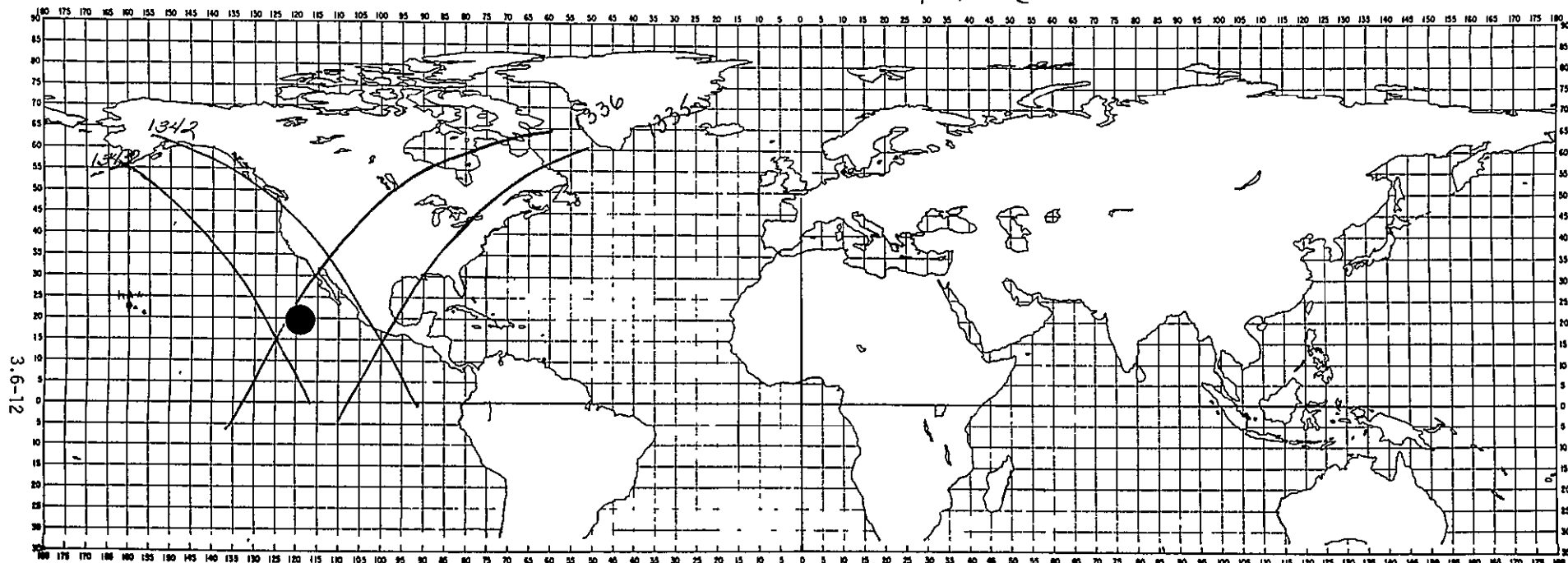


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.5N | 114.9W |
| 0600Z | 17.2 | 115.5 |
| 1200Z | 17.9 | 116.3 |
| 1800Z | 18.5 | 117.2 |
| 2400Z | 19.4 | 118.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq. # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|---------|
| 1321 | +79.49 | 08 17 24 | 0905Z | 085022 | 090426 | 803 | 211 |
| 1322 | +54.17 | 09 59 11 | 1044Z | 102555 | 104412 | 803 | 213 |
| 1328 | -97.77 | 20 09 54 | 2017Z | 201403 | 202459 | 803 | 215 |
| 1329 | -123.10 | 21 51 41 | 2155Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "DENISE" - 7/13/75 (0000Z-2400Z)



LOCATION

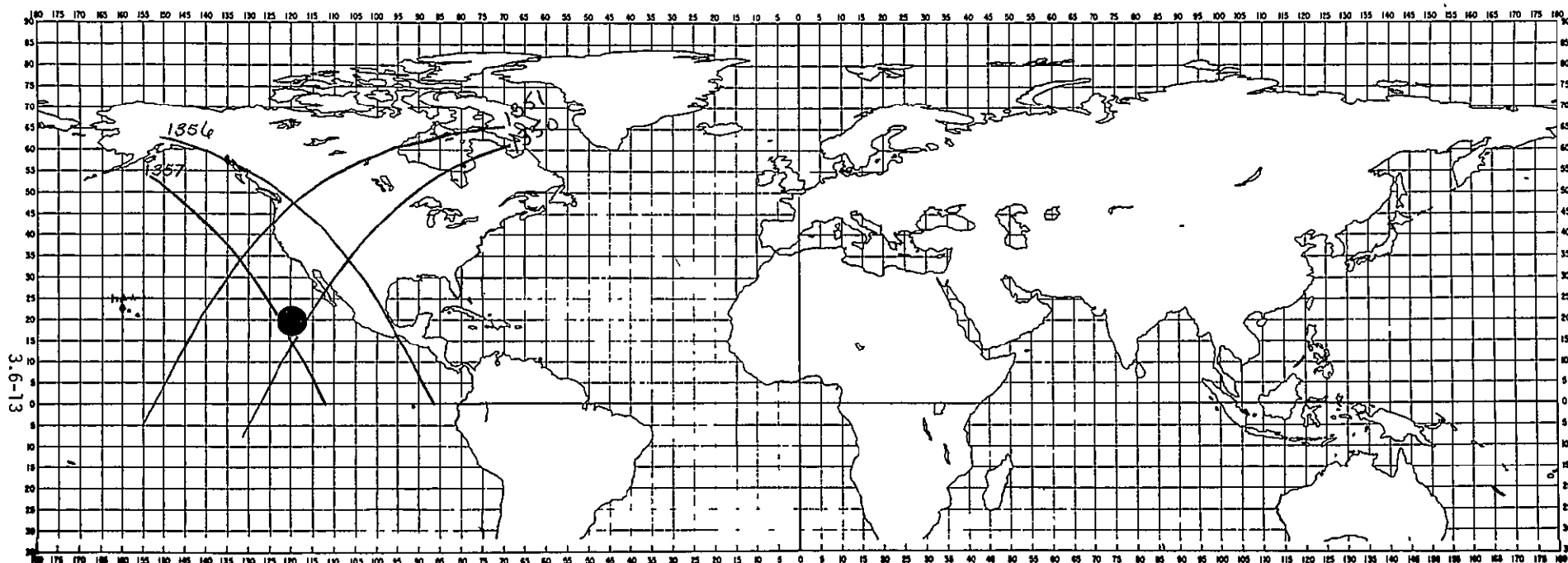
HURRICANE / TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 19.4N | 118.3W |
| 0600Z | 19.6 | 118.5 |
| 1200Z | 19.7 | 118.7 |
| 1800Z | 20.0 | 118.9 |
| 2400Z | 20.1 | 119.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-----|
| 1335 | +84.96 | 08 02 24 | 0850Z | 083547 | 084959 | 803 | 219 |
| 1336 | +69.64 | 09 44 11 | 1029Z | NO | | | |
| 1342 | -92.30 | 19 54 53 | 2004Z | NO | | | |
| 1343 | -117.62 | 21 36 40 | 2141Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

1110

HURRICANE "DENISE" - 7/14/75 (0000Z-2400Z)



LOCATION

TROPICAL STORM / TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.1N | 119.0W |
| 0600Z | 20.3 | 119.1 |
| 1200Z | 20.4 | 119.2 |
| 1800Z | 20.6 | 119.2 |
| 2400Z | 20.8 | 119.0 |

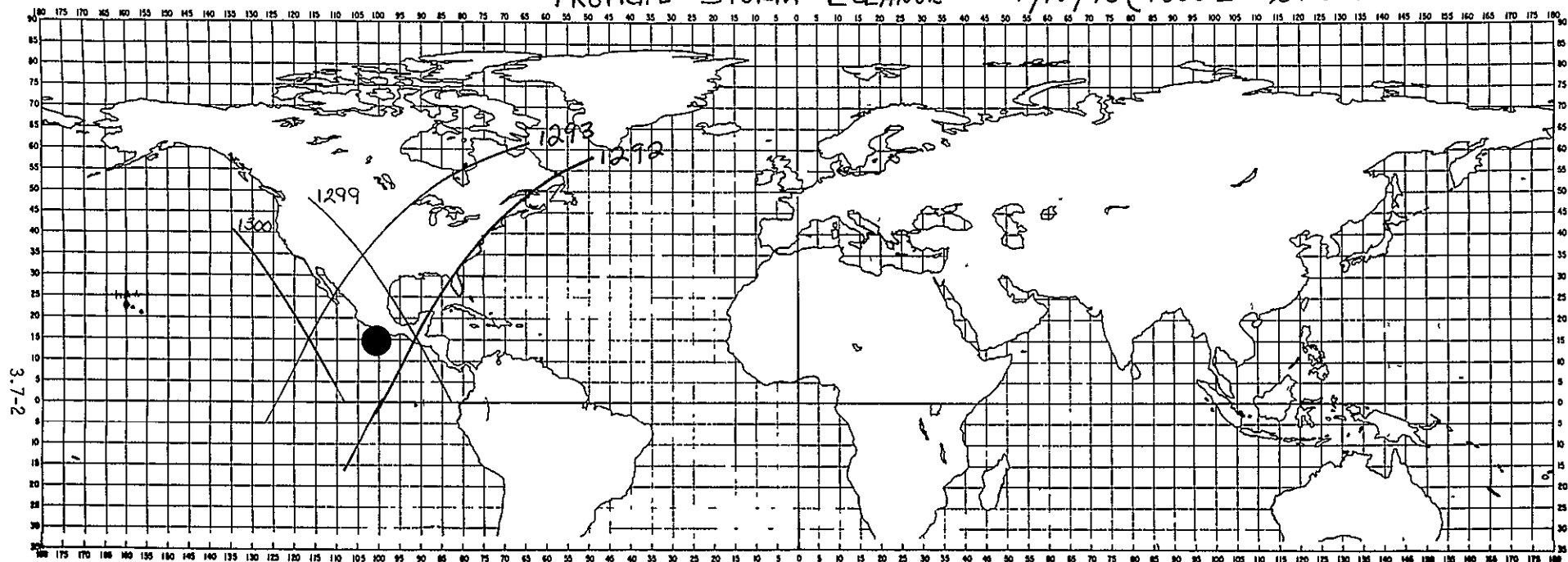
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq. # |
|-------|------------------|--------------------------|-----------------|----|-----|------|---------|
| 1350 | +65.12 | 09 29 10 | 1014Z | NO | | | |
| 1351 | +39.79 | 11 10 57 | 1153Z | NO | | | |
| 1356 | -86.83 | 19 39 53 | 1950Z | NO | | | |
| 1357 | -112.15 | 21 21 40 | 2127Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

STORM: TROPICAL STORM ELEANOR

DATE: JULY 10 - JULY 12, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 7/10 | 1800Z | 14.7N | 100.2W | | 30 | Tropical Depression |
| 7/11 | 0000Z | 15.8N | 100.8W | | 35 | Tropical Storm |
| | 0600Z | 16.5 | 102.4 | | 35 | |
| | 1200Z | 16.9 | 103.1 | | 35 | |
| | 1800Z | 17.2 | 103.4 | | 35 | |
| 7/12 | 0000Z | 17.6N | 103.8W | | 35 | Tropical Storm |
| | 0600Z | ---- | ---- | | -- | |
| | 1200Z | ---- | ---- | | -- | |
| | 1800Z | ---- | ---- | | -- | |

TROPICAL STORM "ELEANOR" - 7/10/75 (1800Z - 2400Z)

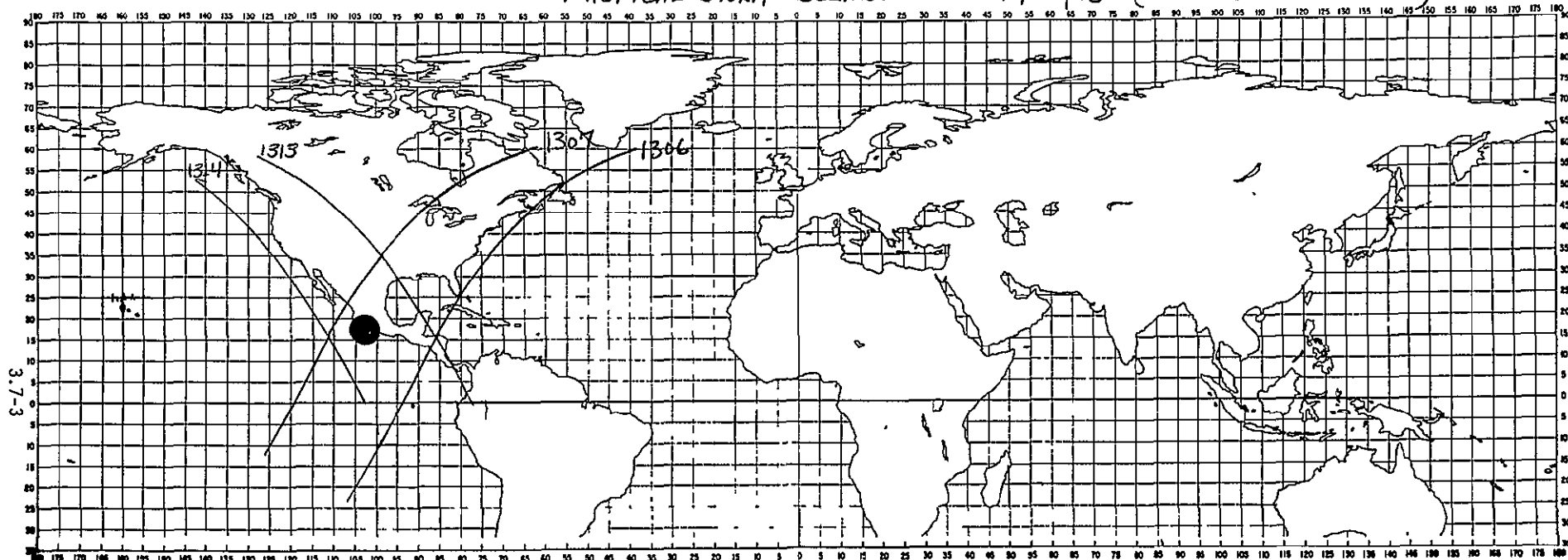


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1800Z | 14.7N | 100.2W |
| 2400Z | 15.8 | 100.8 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|------|
| 1292 | +93.87 | 07 05 38 | 0753Z | No | | | |
| 1293 | +68.55 | 08 47 25 | 0931Z | 092000 | 093047 | 803 | 194 |
| 1299 | -83.39 | 18 58 08 | 1904Z | 190447 | 192052 | 803 | 198 |
| 1300 | -108.72 | 20 39 55 | 2042Z | No | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "ELEANOR" - 7/11/75 (0000Z - 2400Z)

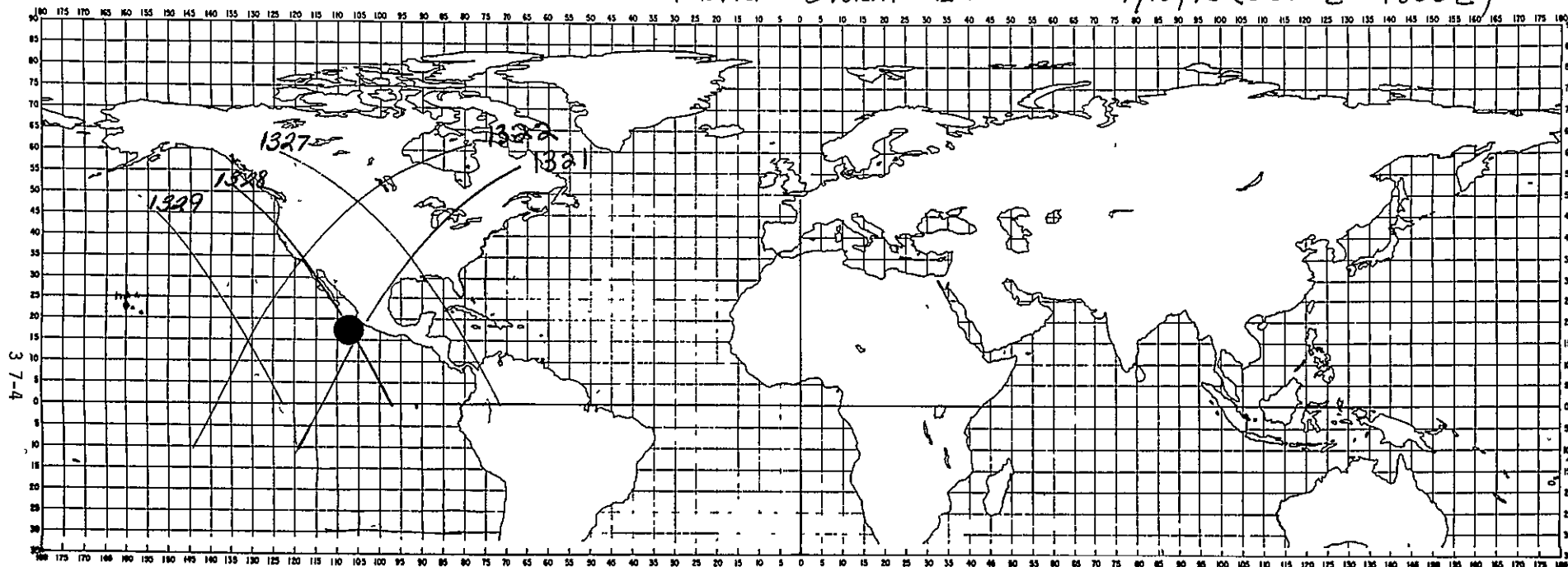


LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 15.8N | 100.8W |
| 0600Z | 16.5 | 102.4 |
| 1200Z | 16.9 | 103.1 |
| 1800Z | 17.2 | 103.4 |
| 2400Z | 17.6 | 103.8 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | DN | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|-------|
| 1306 | +99.34 | 06 50 58 | 0739Z | No | | | |
| 1307 | +74.02 | 08 32 25 | 0916Z | 090425 | 091717 | 803 | 202 |
| 1313 | -77.92 | 18 43 07 | 1851Z | No | | | |
| 1314 | -103.24 | 20 24 54 | 2049Z | No | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "ELEANOR" - 7/12/75 (0000Z - 1800Z)



LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 17.6N | 103.8W |
| 0600Z | 17.8* | 107.3* |
| 1200Z | 18.3* | 107.3* |
| 1800Z | 17.8* | 107.3* |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unit |
|-------|------------------|--------------------------|-----------------|--------|--------|------|------|
| 1321 | +79.49 | 08 17 24 | 0903Z | 095022 | 090426 | 803 | 2/1 |
| 1322 | +54.17 | 09 59 11 | 1042Z | 102555 | 104412 | 803 | 2/3 |
| 1327 | -72.45 | 18 28 07 | 1838Z | No | | | |
| 1328 | -97.77 | 20 09 54 | 2015Z | 201403 | 202459 | 803 | 2/5 |
| 1329 | -123.09 | 21 51 41 | 2154Z | No | | | |
| | | | | | | | |

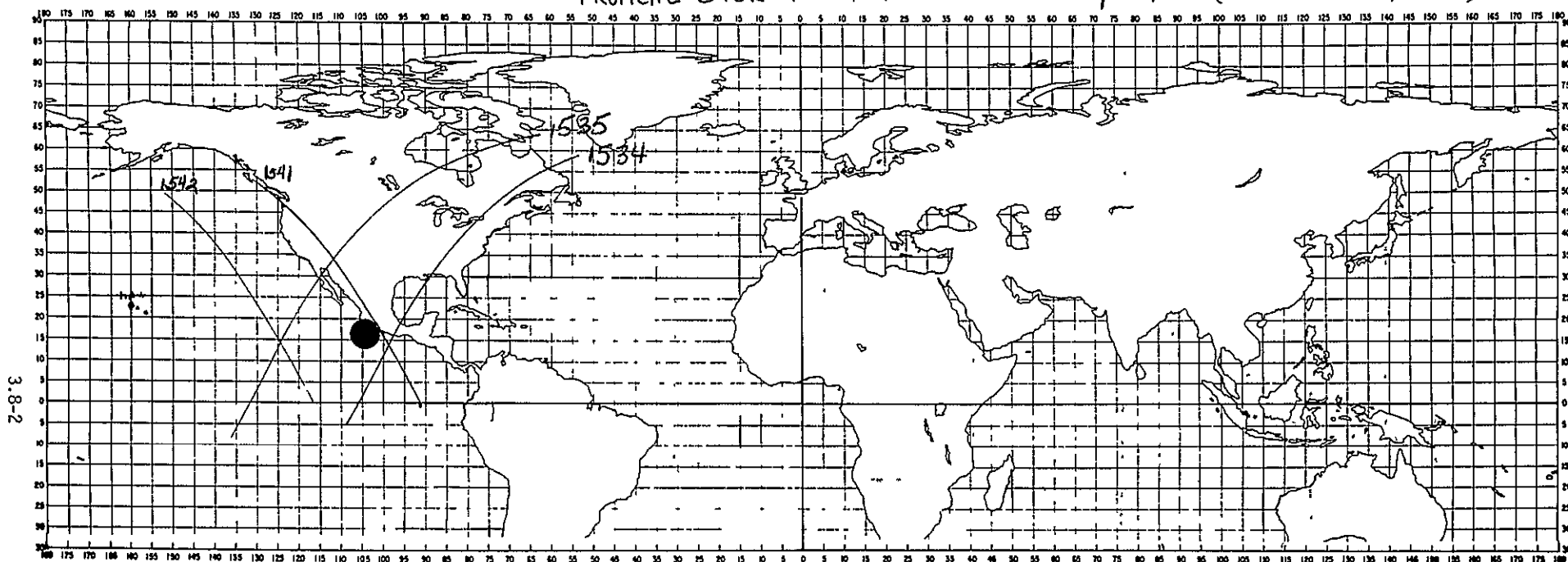
* 24-Hour Forecast

STORM: TROPICAL STORM FRANCENE

DATE: JULY 27 - JULY 30, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------------------------|
| | | Latitude | Longitude | | | |
| 7/27 | 0600Z | 16.3N | 102.8W | | 30 | Tropical Depression Tropical Storm |
| | 1200Z | 16.5 | 103.7 | | 35 | |
| | 1800Z | 16.5 | 104.5 | | 45 | |
| 7/28 | 0000Z | 16.5N | 105.4W | | 45 | Tropical Storm |
| | 0600Z | 16.5 | 106.8 | | 45 | |
| | 1200Z | 16.4 | 106.8 | | 40 | Tropical Depression |
| | 1800Z | 16.3 | 107.5 | | 30 | |
| 7/29 | 0000Z | 16.2N | 108.2W | | 25 | Tropical Depression |
| | 0600Z | 16.0 | 109.0 | | 25 | |
| | 1200Z | 16.0 | 110.0 | | 25 | |
| | 1800Z | 16.7 | 111.3 | | 25 | |
| 7/30 | 0000Z | 17.7N | 112.5W | | 25 | Tropical Depression |
| | 0600Z | | | | | |
| | 1200Z | | | | | |
| | 1800Z | | | | | |

TROPICAL STORM "FRANCENE" - 7/27/75 (0600Z - 2400Z)

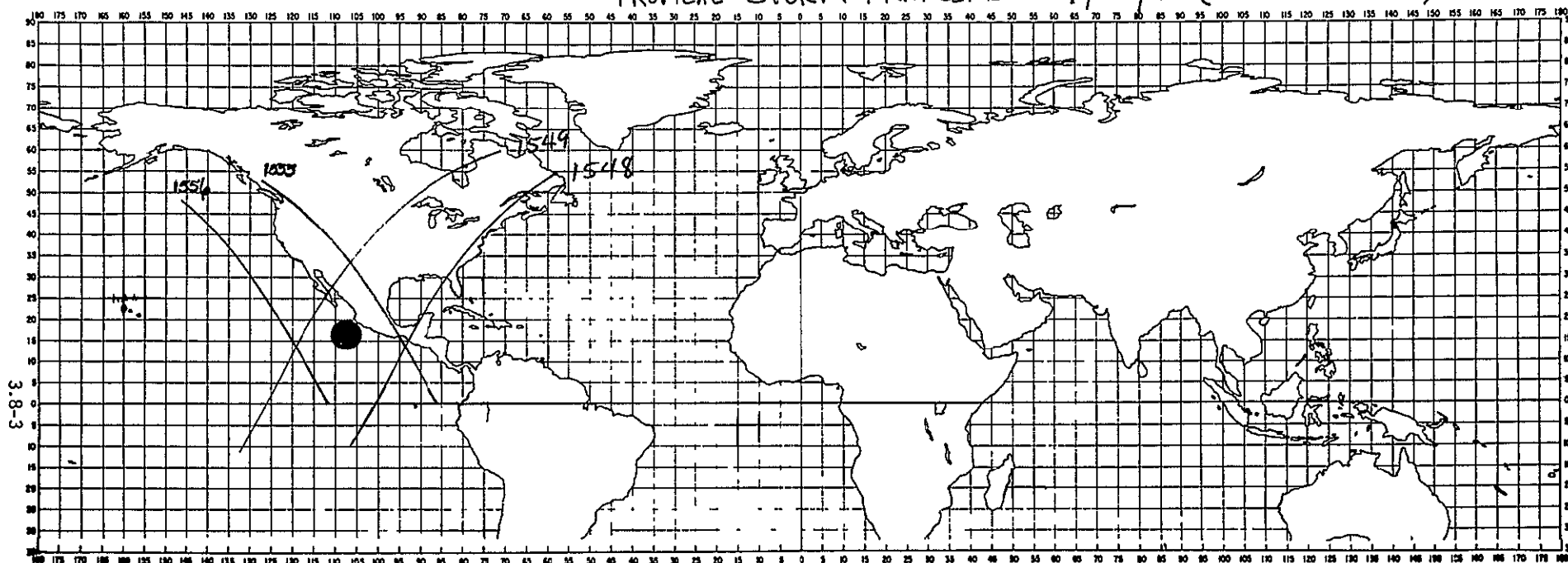


LOCATION TROPICAL DEPRESSION/ TROPICAL STORM (1200Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0600Z | 16.3N | 102.8W |
| 1200Z | 16.5 | 103.7 |
| 1800Z | 16.5 | 104.5 |
| 2400Z | 16.5 | 105.4 |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unq# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|------|
| 1534 | +85.63 | 09 37 36. | 1024Z | No | | | |
| 1535 | +60.31 | 11 19 23 | 1202Z | 120029 | 120521 | 802 | 422 |
| 1541 | -91.63 | 21 30 06 | 2136Z | No | | | |
| 1542 | -116.96 | 23 11 53 | 2313Z | No | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "FRANCENE" - 9/28/75 (0000Z-2400Z)



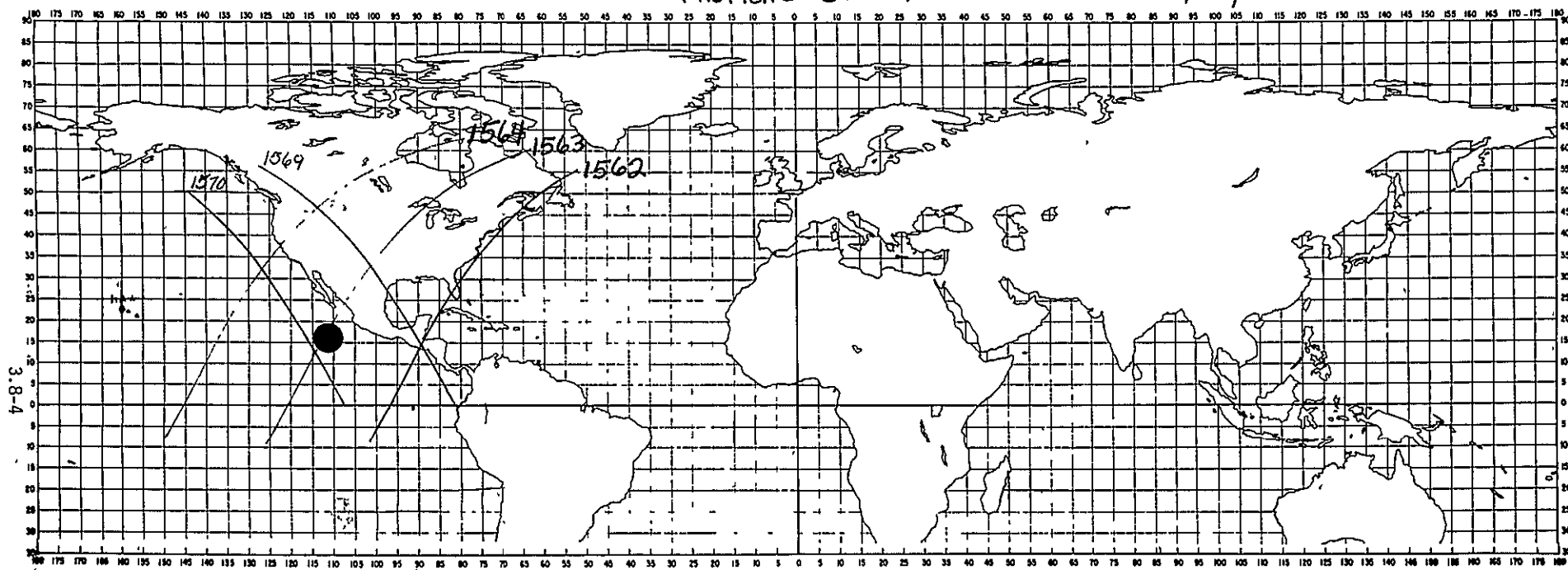
LOCATION

TROPICAL STORM/ TROPICAL DEPRESSION (1800Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.5N | 105.4W |
| 0600Z | 16.5 | 106.8 |
| 1200Z | 16.4 | 106.8 |
| 1800Z | 16.3 | 107.5 |
| 2400Z | 16.2 | 108.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNQ# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|------|
| 1548 | +91.11 | 09 22 35 | 1010Z | No | | | |
| 1549 | +65.78 | 11 04 23 | 1148Z | 114635 | 115102 | 802 | 433 |
| 1555 | -86.16 | 21 15 05 | 2122Z | 212053 | 212400 | 803 | - |
| 1556 | -111.48 | 22 56 52 | 2300Z | No | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "FRANCENE" - 7/29/30 (0000Z-2400Z)

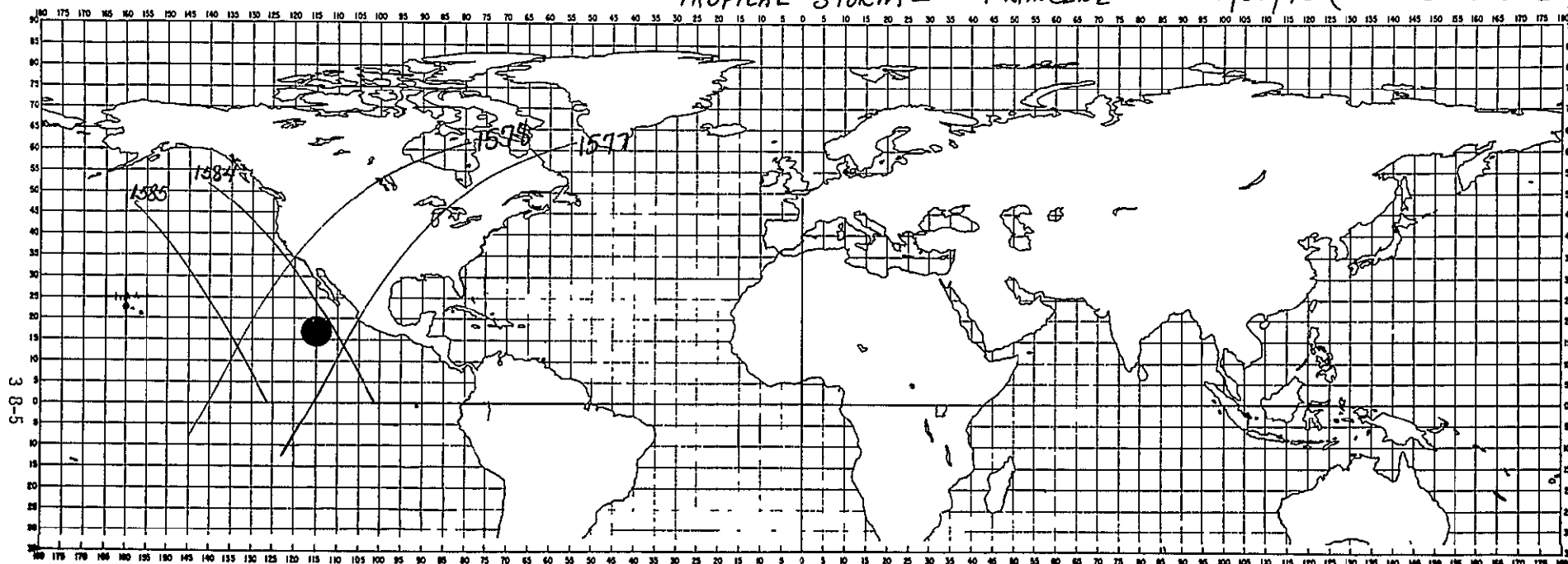


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.2N | 108.2W |
| 0600Z | 16.0 | 109.0 |
| 1200Z | 16.0 | 110.0 |
| 1800Z | 16.7 | 111.3 |
| 2400Z | 17.7 | 112.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|----|-----|------|-------|
| 1562 | +96.58 | 09 07 35 | 0957Z | No | | | |
| 1563 | +71.25 | 10 49 22 | 1134Z | No | | | |
| 1564 | +45.93 | 12 31 09 | 1313Z | No | | | |
| 1569 | -80.68 | 21 00 04 | 2108Z | No | | | |
| 1570 | -106.01 | 22 41 52 | 2245Z | No | | | |

TROPICAL STORM - "FRANCENE" - 7/30/75 (0000Z - 1800Z)



LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 17.7N | 112.5W |
| 0600Z | 15.0* | 110.0* |
| 1200Z | 16.0* | 114.0* |
| 1800Z | 17.0* | 115.5* |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | U249 |
|-------|------------------|--------------------------|-----------------|----|-----|------|------|
| 1577 | +76.73 | 10 34 21 | 1121Z | No | | | |
| 1578 | +51.41 | 12 16 09 | 1300Z | No | | | |
| 1584 | -100.53 | 22 25 31 | 2232Z | No | | | |
| 1585 | -125.86 | 00 09 38 | 0012Z | No | | | |
| | | | | | | | |
| | | | | | | | |

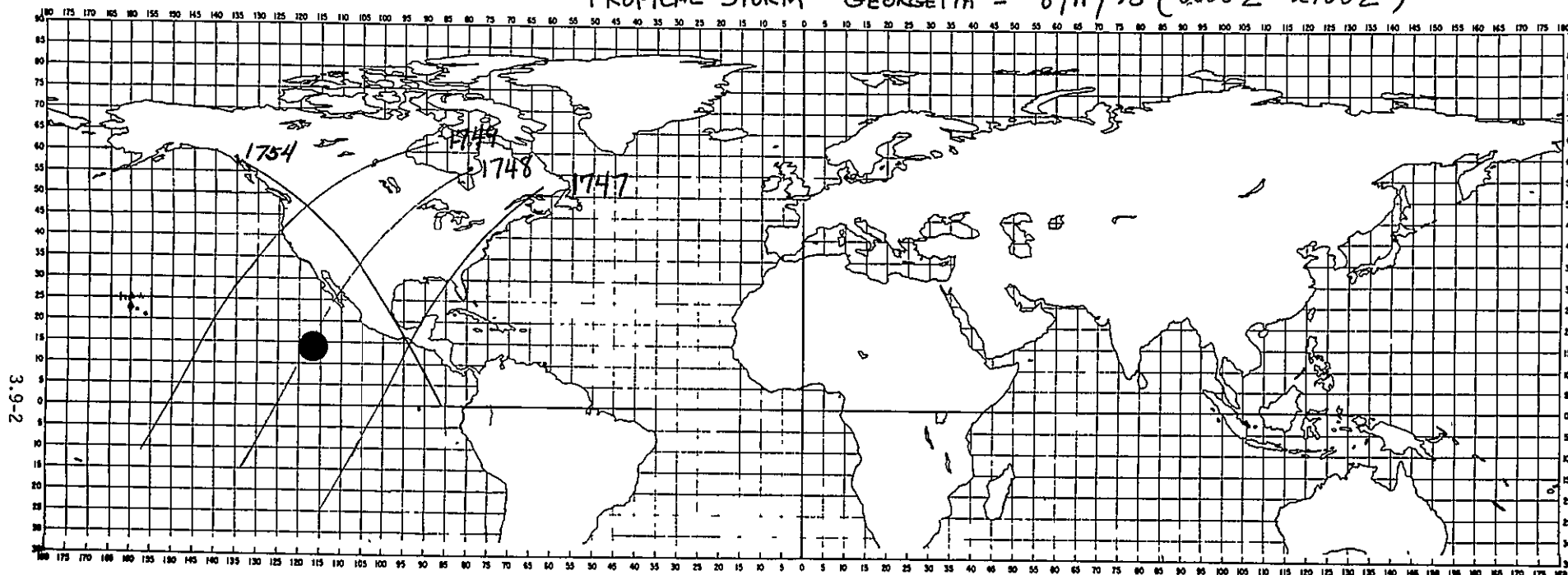
* 24-Hour Forecast

STORM: TROPICAL STORM GEORGETTA

DATE: AUGUST 10 - AUGUST 13, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 8/11 | 0000Z | 14.0N | 117.5W | | 25 | Tropical Depression |
| | 0600Z | 14.0 | 118.0 | | 25 | |
| | 1200Z | 14.1 | 118.7 | | 30 | Tropical Storm |
| | 1800Z | 14.4 | 119.5 | | 35 | |
| 8/12 | 0000Z | 14.6N | 120.0W | | 35 | Tropical Storm |
| | 0600Z | 15.0 | 121.7 | | 40 | |
| | 1200Z | 15.6 | 121.6 | | 40 | |
| | 1800Z | 16.1 | 122.6 | | 40 | |
| 8/13 | 0000Z | 16.7N | 123.7W | | 35 | Tropical Storm |
| | 0600Z | 17.4 | 125.3 | | 30 | |
| | 1200Z | 17.5 | 126.0 | | 30 | Tropical Depression |
| | 1800Z | 17.6 | 127.1 | | 30 | |
| 8/14 | 0000Z | 17.4N | 128.2W | | 30 | Tropical Depression |
| | 0600Z | 16.8 | 129.3 | | 25 | |
| | 1200 | ---- | ---- | | -- | |

TROPICAL STORM "GEORGETTA" - 8/11/75 (0000Z - 2400Z)

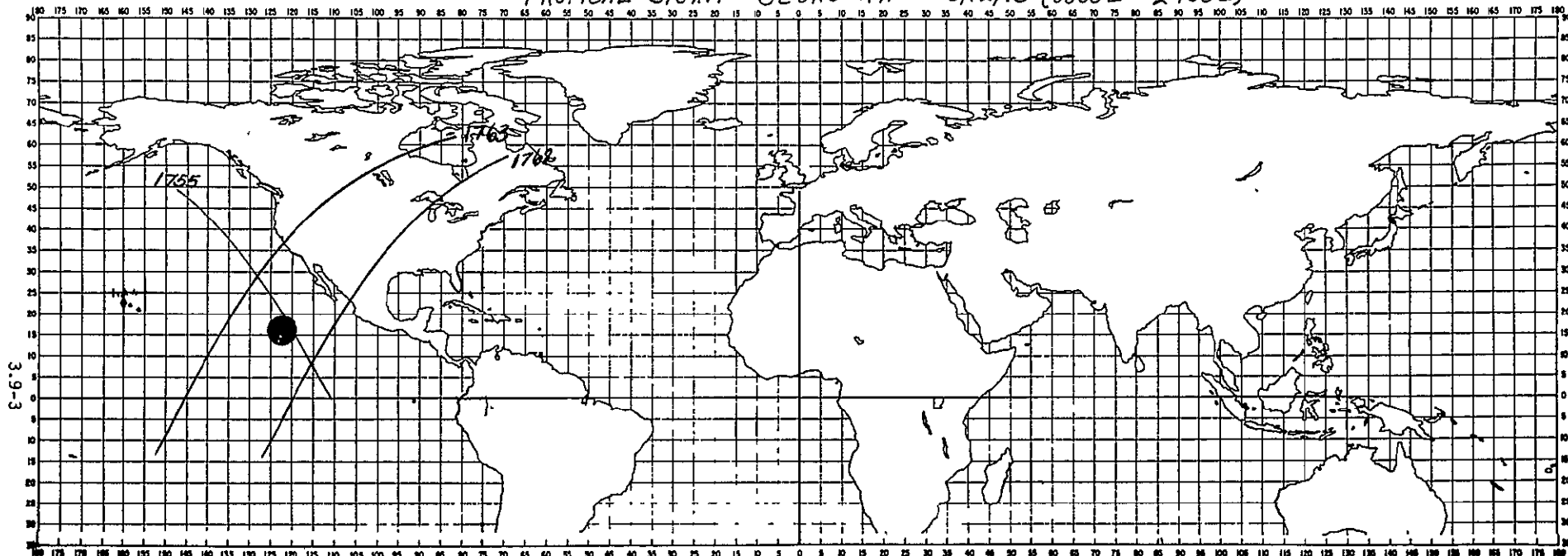


LOCATION TROPICAL DEPRESSION/TROPICAL STORM (1800Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 14.0N | 117.5W |
| 0600Z | 14.0 | 118.0 |
| 1200Z | 14.1 | 118.7 |
| 1800Z | 14.4 | 119.5 |
| 2400Z | 14.6 | 120.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq # |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 1747 | + 91.78 | 10 57 47 | 1148 Z | No | | | |
| 1748 | + 66.45 | 12 39 35 | 1326 Z | No | | | |
| 1749 | + 41.13 | 14 21 22 | 1504 Z | No | | | |
| 1754 | - 85.49 | 22 50 17 | 2258 Z | No | | | |
| | | | | | | | |
| | | | | | | | |

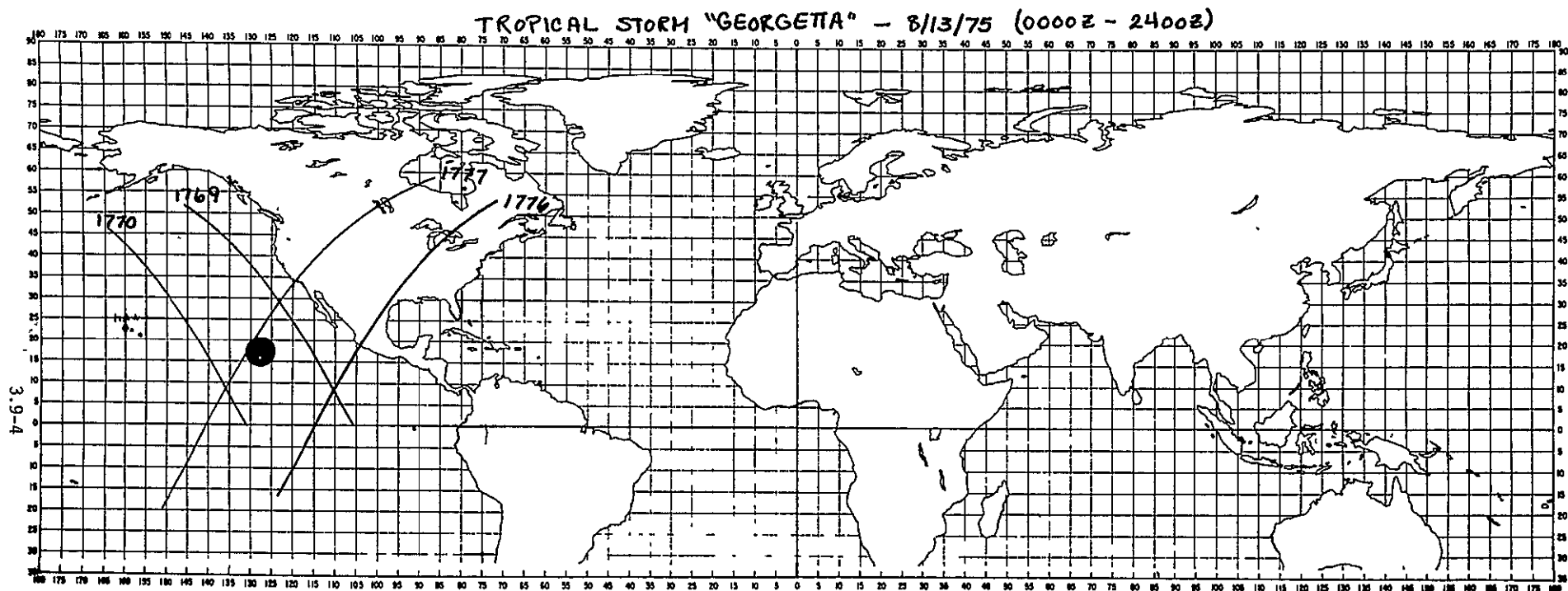
TROPICAL STORM "GEORGETTA" - 8/12/75 (0000Z - 2400Z)



LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 14.6N | 120.0W |
| 0600Z | 15.0 | 121.7 |
| 1200Z | 15.6 | 121.6 |
| 1800Z | 16.1 | 122.6 |
| 2400Z | 16.7 | 123.7 |

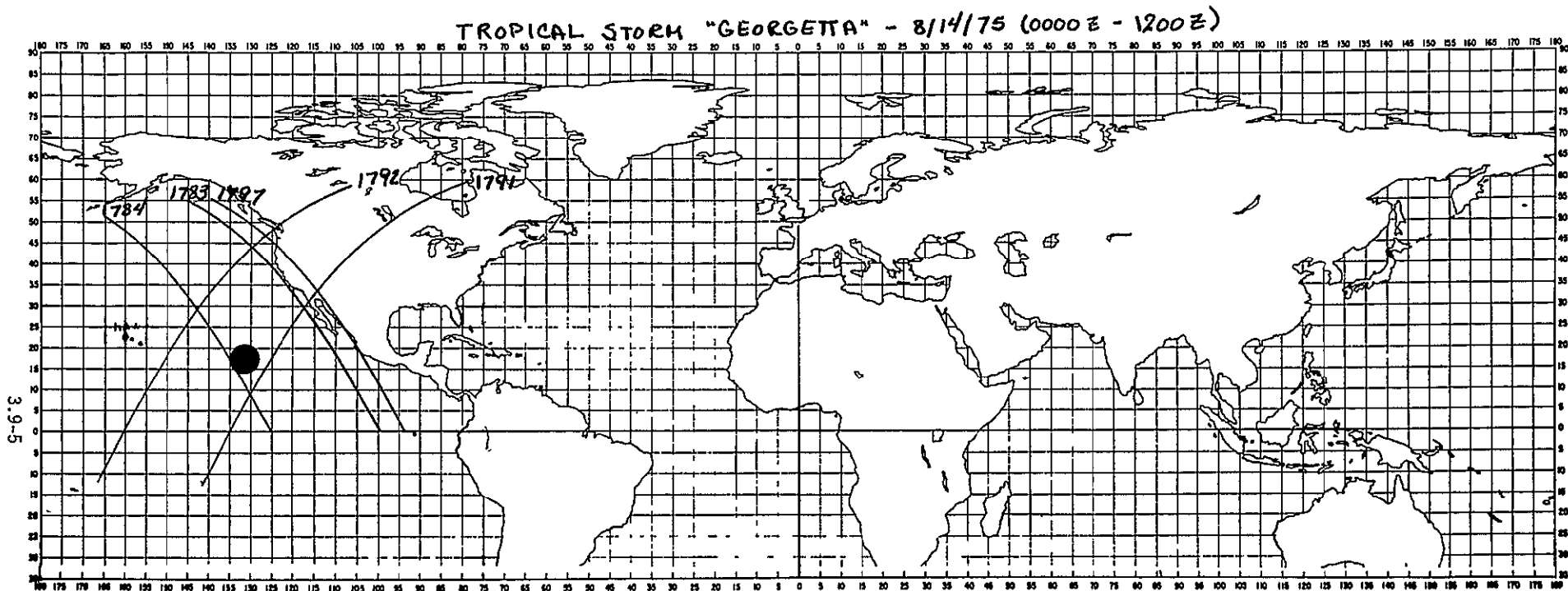
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Length |
|-------|------------------|--------------------------|-----------------|---------|--------|------|--------|
| 1755 | -110.81 | 00 32 04 | 0036Z | No | | | |
| 1762 | + 71.95 | 12 24 39 | 1311Z | No | | | |
| 1763 | +46.62 | 14 06 16 | 1450Z | 1414519 | 145014 | 80.2 | 125 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



LOCATION
TROPICAL STORM/TROPICAL DEPRESSION (0600Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.7N | 123.7W |
| 0600Z | 17.4 | 125.3 |
| 1200Z | 17.5 | 126.0 |
| 1800Z | 17.6 | 127.1 |
| 2400Z | 17.4 | 128.2 |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|----|-----|------|-------|
| 1769 | -105.31 | 00 16 58 | 0023Z | No | | | |
| 1770 | -130.64 | 01 58 45 | 0201Z | No | | | |
| 1776 | +77.43 | 12 09 27 | 1258Z | No | | | |
| 1777 | +52.10 | 13 51 15 | 1436Z | No | | | |
| | | | | | | | |
| | | | | | | | |



LOCATION
TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 17.4N | 128.2W |
| 0600Z | 16.8 | 129.3 |
| 1200Z | 16.9 * | 132.2 * |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq# |
|-------|------------------|--------------------------|-----------------|----|-----|------|-------|
| 1783 | - 99.84 | 00 01 57 | 0010Z | No | | | |
| 1784 | - 125.16 | 01 43 44 | 0148Z | No | | | |
| 1791 | + 57.58 | 13 36 13 | 1422Z | No | | | |
| 1792 | + 32.25 | 15 18 01 | 1601Z | No | | | |
| 1797 | - 94.36 | 23 45 55 | 2354Z | No | | | |

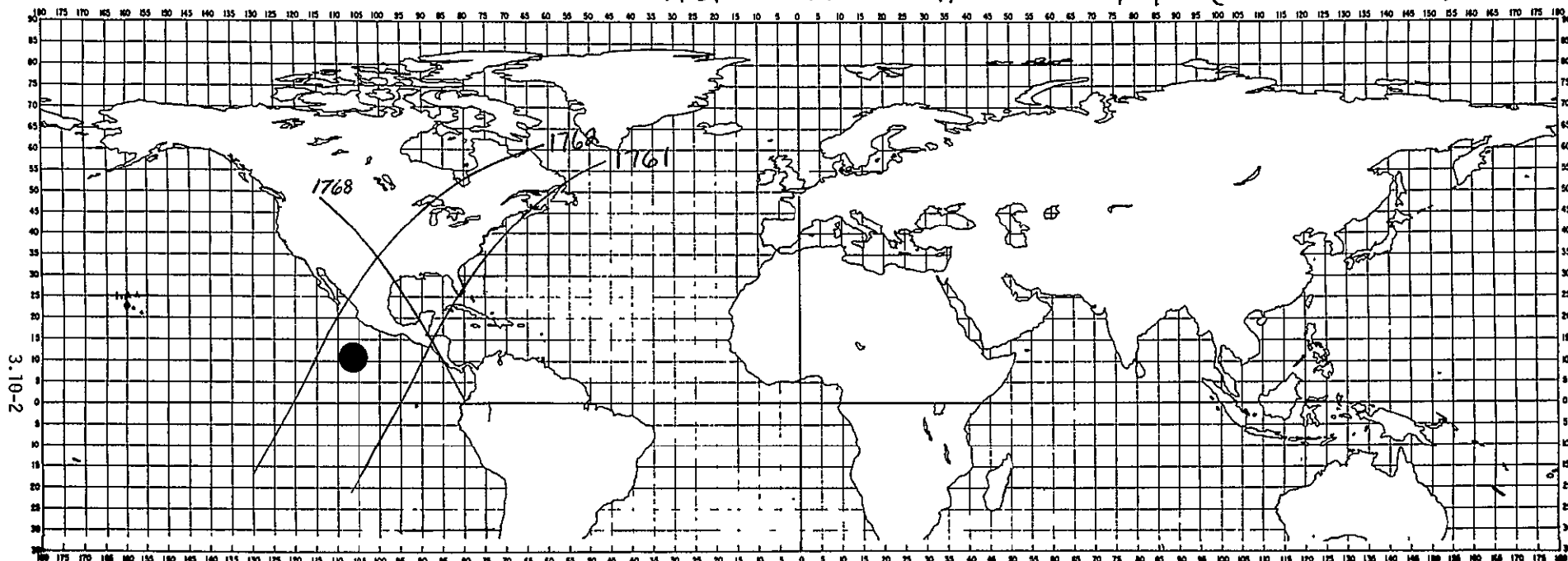
* 24 HOUR FORECAST

STORM: TROPICAL STORM HILARY

DATE: AUGUST 12 - AUGUST 17, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 8/12 | 1800Z | 11.4N | 107.0W | | 30 | Tropical Depression |
| 8/13 | 0000Z | 11.7N | 108.0W | | 30 | Tropical Depression |
| | 0600Z | 12.0 | 109.5 | | 40 | Tropical Storm |
| | 1200Z | 12.3 | 110.5 | | 40 | |
| | 1800Z | 12.5 | 111.4 | | 45 | |
| 8/14 | 0000Z | 13.0N | 112.0W | | 45 | Tropical Storm |
| | 0600Z | 13.7 | 113.0 | | 40 | |
| | 1200Z | 14.7 | 114.0 | | 45 | |
| | 1800Z | 15.5 | 115.0 | | 45 | |
| 8/15 | 0000Z | 16.4N | 116.0W | | 50 | Tropical Storm |
| | 0600Z | 17.5 | 117.4 | | 45 | |
| | 1200Z | 18.3 | 118.3 | | 45 | |
| | 1800Z | 19.5 | 119.5 | | 45 | |
| 8/16 | 0000Z | 20.0N | 120.4W | | 45 | Tropical Storm |
| | 0600Z | 20.2 | 121.1 | | 35 | |
| | 1200Z | 20.3 | 121.7 | | 30 | Tropical Depression |
| | 1800Z | 20.4 | 122.2 | | 30 | |
| 8/17 | 0000Z | 20.6N | 122.7W | | 30 | Tropical Depression |
| | 0600Z | 20.7 | 123.4 | | 30 | |
| | 1200Z | 21.0 | 124.0 | | 25 | |
| | 1800Z | ---- | ---- | | -- | |

TROPICAL STORM "HILARY" - 8/12/75 (1800Z - 2400Z)

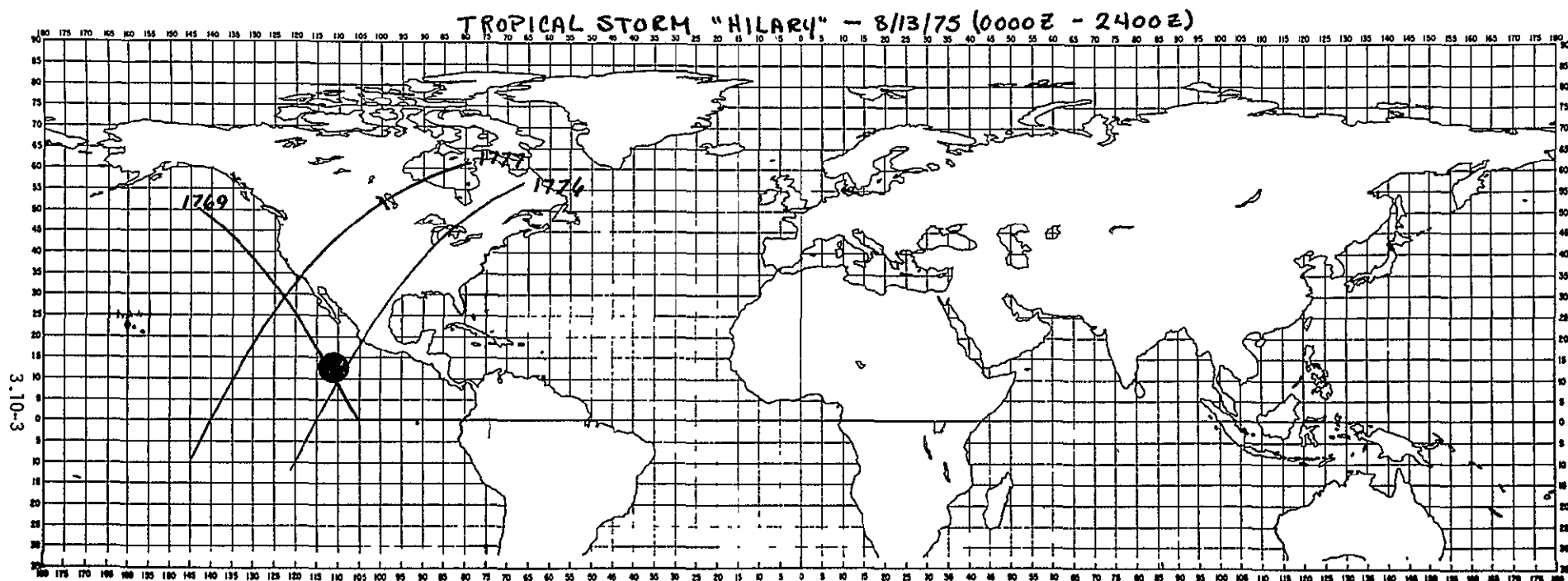


3.10-2

LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1800Z | 11.4 N | 107.0 W |
| 2400Z | 11.7 | 108.0 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq # |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 1761 | +97.27 | 10 42 41 | 1133 Z | No | | | |
| 1762 | +71.95 | 12 24 49 | 1311 Z | No | | | |
| 1769 | -79.99 | 22 35 11 | 2241 Z | No | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

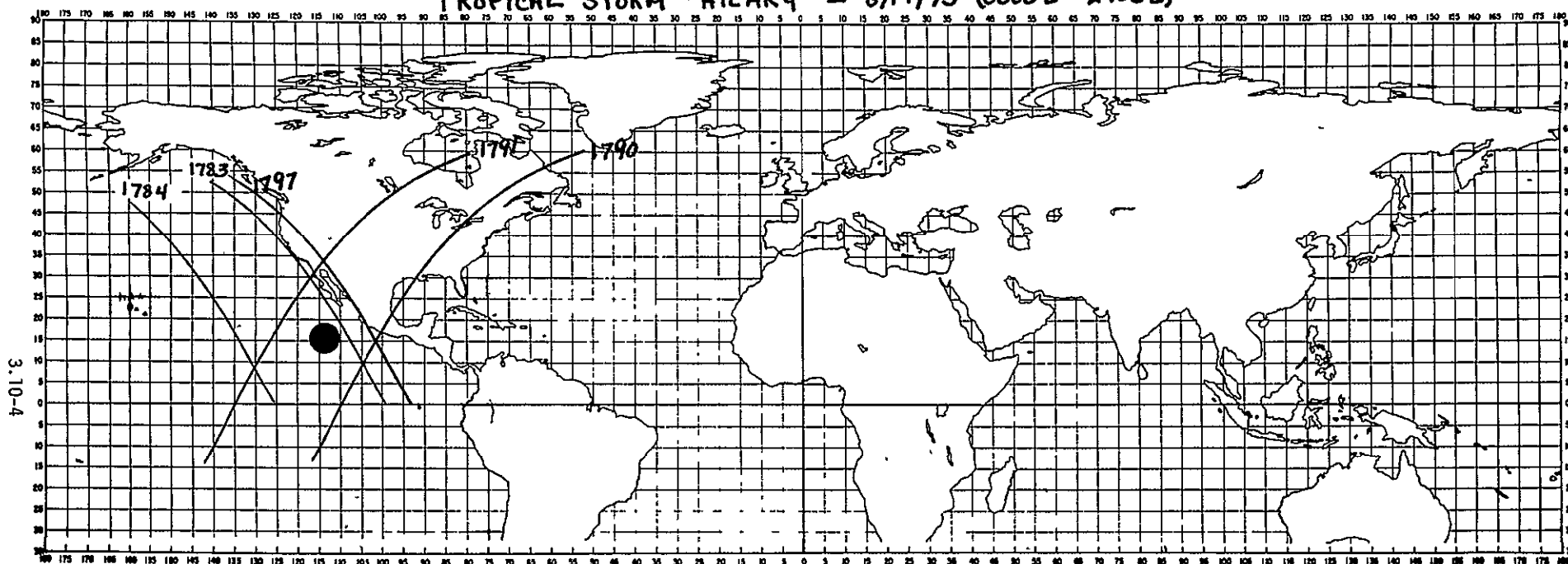


**LOCATION
TROPICAL DEPRESSION/TROPICAL STORM (0600Z)**

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 11.7N | 108.00 |
| 0600Z | 12.0 | 109.5 |
| 1200Z | 12.3 | 110.5 |
| 1800Z | 12.5 | 111.4 |
| 2400Z | 13.0 | 112.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode/V | Unig# |
|-------|------------------|--------------------------|-----------------|----|-----|--------|-------|
| 1769 | -105.31 | 00 16 58 | 0019Z | No | | | |
| 1776 | +77.43 | 12 09 27 | 1257Z | No | | | |
| 1777 | +52.10 | 13 51 15 | 1435Z | No | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

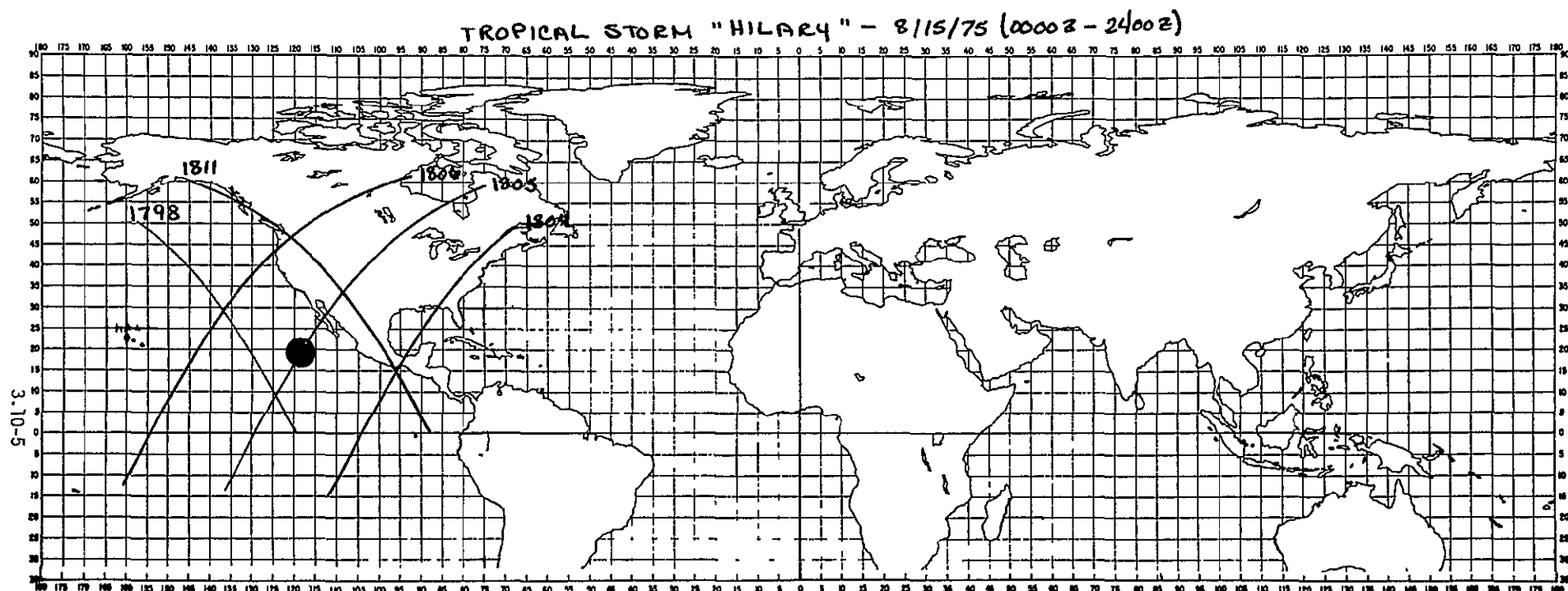
TROPICAL STORM "HILARY" - 8/14/75 (0000Z - 2400Z)



LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 13.0N | 112.0W |
| 0600Z | 13.7 | 113.0 |
| 1200Z | 14.7 | 114.0 |
| 1800Z | 15.5 | 115.0 |
| 2400Z | 16.4 | 116.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Made | Ulight |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 1783 | -99.84 | 00 01 57 | 0006Z | No | | | |
| 1784 | -125.16 | 01 43 44 | 0145Z | No | | | |
| 1790 | +82.90 | 11 54 26 | 1242Z | No | | | |
| 1791 | +57.58 | 13 36 13 | 1420Z | No | | | |
| 1797 | -94.36 | 23 45 55 | 2351Z | No | | | |



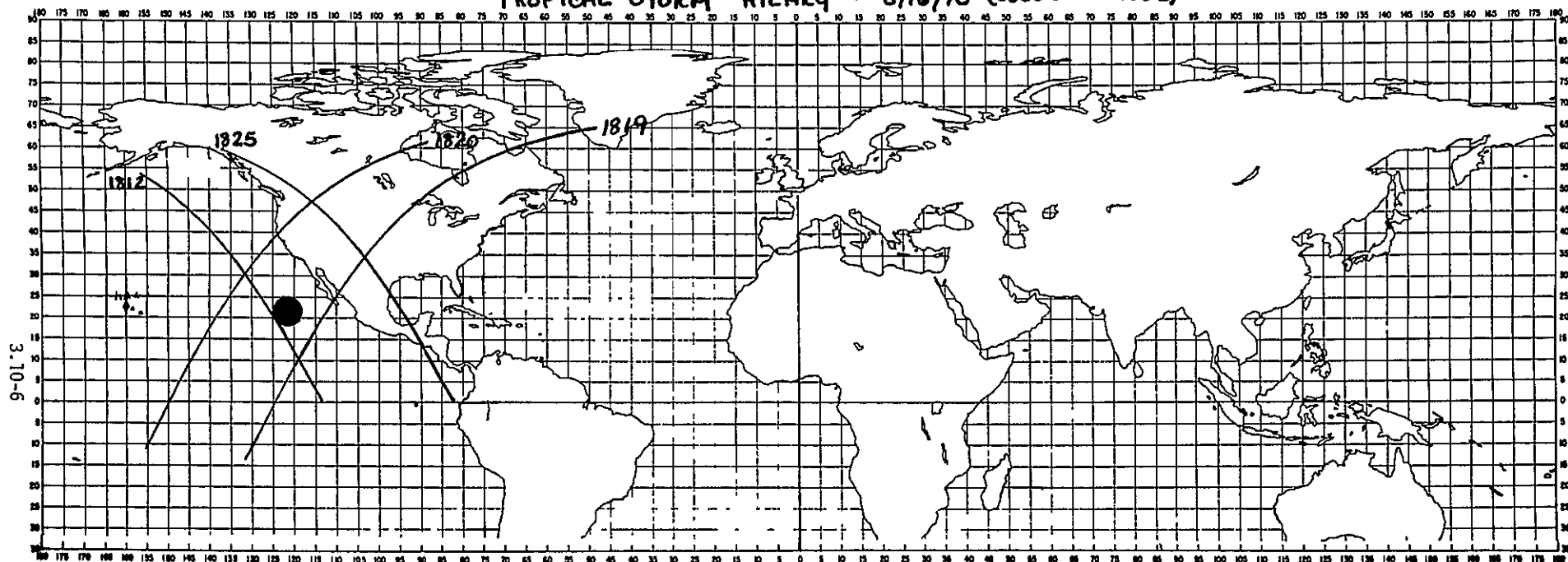
LOCATION

TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.4N | 116.00 |
| 0600Z | 17.5 | 117.4 |
| 1200Z | 18.3 | 118.3 |
| 1800Z | 19.5 | 119.5 |
| 2400Z | 20.0 | 120.4 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Angle |
|-------|------------------|--------------------------|-----------------|----|-----|------|-------|
| 1798 | -119.69 | 01 28 43 | 0132E | No | | | |
| 1804 | +88.38 | 11 39 25 | 1228E | No | | | |
| 1805 | +63.05 | 13 21 12 | 1406E | No | | | |
| 1806 | +37.23 | 15 02 59 | 1544E | No | | | |
| 1811 | -88.89 | 23 31 55 | 2341E | No | | | |

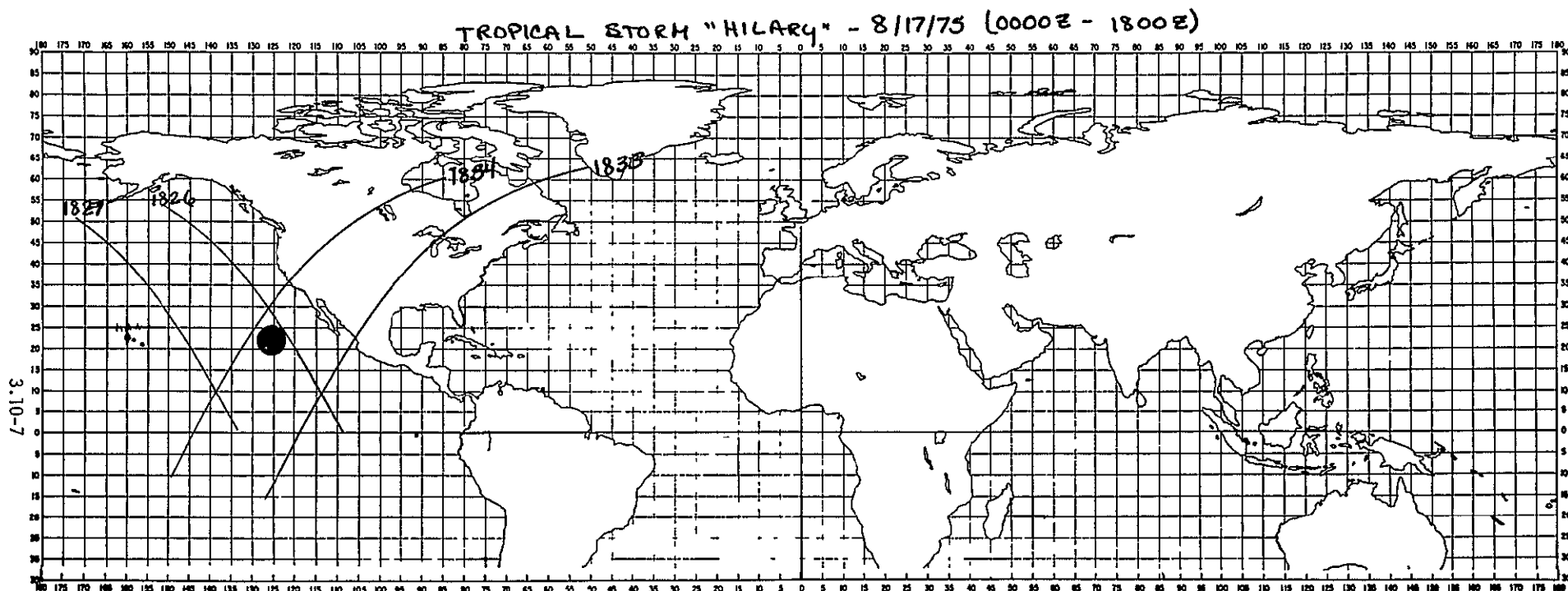
TROPICAL STORM "HILARY" - 8/16/75 (0000Z - 2400Z)



LOCATION TROPICAL STORM/TROPICAL DEPRESSION (1200Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.0N | 120.4W |
| 0600Z | 20.2 | 121.1 |
| 1200Z | 20.3 | 121.7 |
| 1800Z | 20.4 | 122.2 |
| 2400Z | 20.6 | 122.7 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Model/Unit# |
|-------|------------------|--------------------------|-----------------|----|-----|-------------|
| 1812 | -114.21 | 01 13 42 | 0118Z | No | | |
| 1819 | +68.53 | 13 06 11 | 1352Z | No | | |
| 1820 | +43.21 | 14 47 58 | 1530Z | No | | |
| 1825 | -83.41 | 23 16 53 | 2318Z | No | | |
| | | | | | | |
| | | | | | | |



LOCATION
TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.6N | 122.7W |
| 0600Z | 20.7 | 123.4 |
| 1200Z | 21.0 | 124.0 |
| 1800Z | 21.3* | 126.7* |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Uniq. # |
|-------|------------------|--------------------------|-----------------|--------|--------|------|---------|
| 1826 | -108.73 | 00 58 40 | 0155Z | 015315 | 020536 | 802 | 180 |
| 1827 | -134.06 | 02 40 28 | 0243Z | No | | | |
| 1833 | +74.00 | 12 51 10 | 1335Z | No | | | |
| 1834 | +48.68 | 14 32 57 | 1516Z | No | | | |
| | | | | | | | |
| | | | | | | | |

* 24 Hour Forecast

STORM: HURRICANE ILSA

DATE: AUGUST 18 - AUGUST 26, 1975

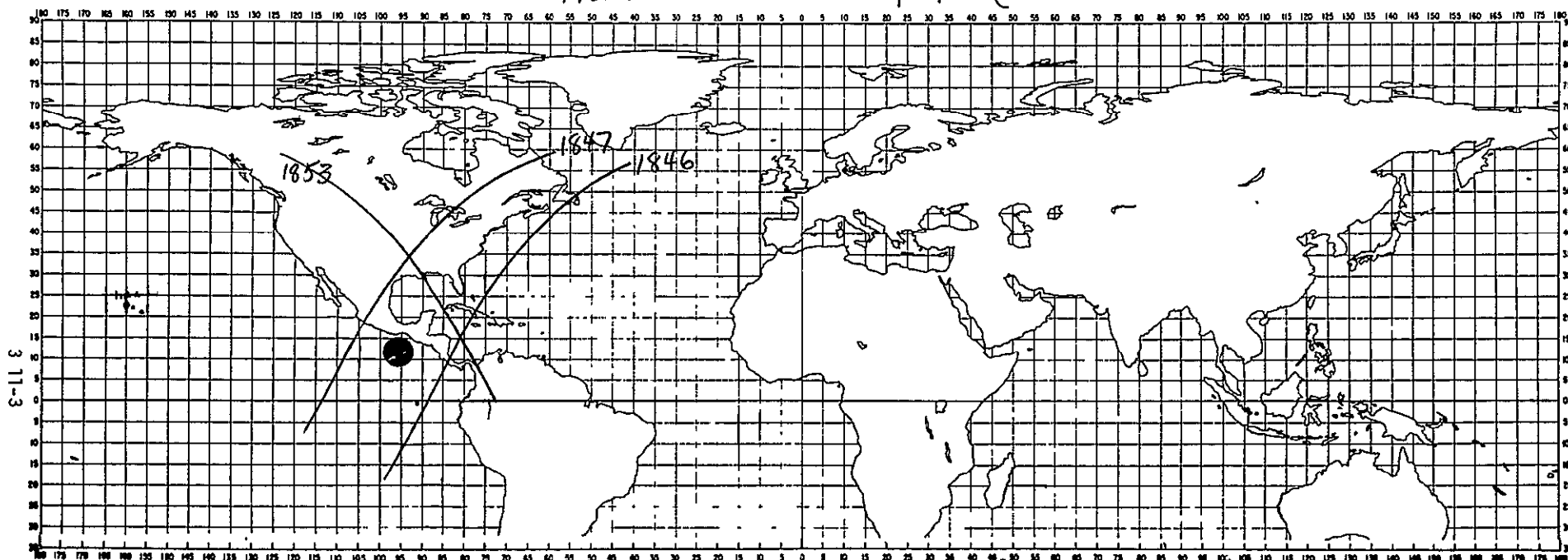
| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 8/18 | 0000Z | 12.1N | 95.8W | | 30 | Tropical Depression |
| | 0600Z | 12.1 | 96.4 | | 30 | |
| | 1200Z | 12.3 | 97.0 | | 35 | Tropical Storm |
| | 1800Z | 12.5 | 97.8 | | 35 | |
| 8/19 | 0000Z | 12.6N | 98.5W | | 35 | Tropical Storm |
| | 0600Z | 12.8 | 99.0 | | 35 | |
| | 1200Z | 13.0 | 99.5 | | 35 | |
| | 1800Z | 13.3 | 100.0 | | 45 | |
| 8/20 | 0000Z | 13.5N | 100.5W | | 55 | Tropical Storm |
| | 0600Z | 13.7 | 101.2 | | 55 | |
| | 1200Z | 13.7 | 101.8 | | 60 | |
| | 1800Z | 14.0 | 102.8 | | 60 | |
| 8/21 | 0000Z | 14.0N | 104.0W | | 65 | Hurricane |
| | 0600Z | 14.0 | 104.7 | | 75 | |
| | 1200Z | 14.0 | 105.5 | | 75 | |
| | 1800Z | 14.0 | 106.3 | | 75 | |
| 8/22 | 0000Z | 14.0N | 107.2W | | 75 | Hurricane |
| | 0600Z | 14.2 | 108.2 | | 80 | |
| | 1200Z | 14.3 | 109.5 | | 85 | |
| | 1800Z | 14.4 | 110.2 | | 90 | |
| 8/23 | 0000Z | 14.7N | 111.0W | | 95 | Hurricane |
| | 0600Z | 15.2 | 112.0 | | 90 | |
| | 1200Z | 15.9 | 112.9 | | 90 | |
| | 1800Z | 16.8 | 113.3 | | 90 | |
| 8/24 | 0000Z | 17.1N | 114.7W | | 90 | Hurricane |
| | 0600Z | 18.1 | 116.2 | | 85 | |
| | 1200Z | 19.0 | 117.5 | | 90 | |
| | 1800Z | 19.6 | 119.0 | | 90 | |

STORM: HURRICANE ILSA (Cont.)

DATE: AUGUST 18 - AUGUST 26, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 8/25 | 0000Z | 20.0N | 120.8W | | 90 | Hurricane |
| | 0600Z | 20.1 | 122.4 | | 90 | |
| | 1200Z | 19.9 | 124.0 | | 80 | |
| | 1800Z | 19.7 | 125.0 | | 65 | |
| 8/26 | 0000Z | 19.7N | 126.1W | | 60 | Tropical Storm |
| | 0600Z | 19.8 | 127.3 | | 45 | |
| | 1200Z | 20.0 | 128.5 | | 35 | Tropical Storm |
| | 1800Z | 20.3 | 129.9 | | 30 | Tropical Depression |

HURRICANE "ILSA" - 8/18/75 (0000Z - 2400Z)



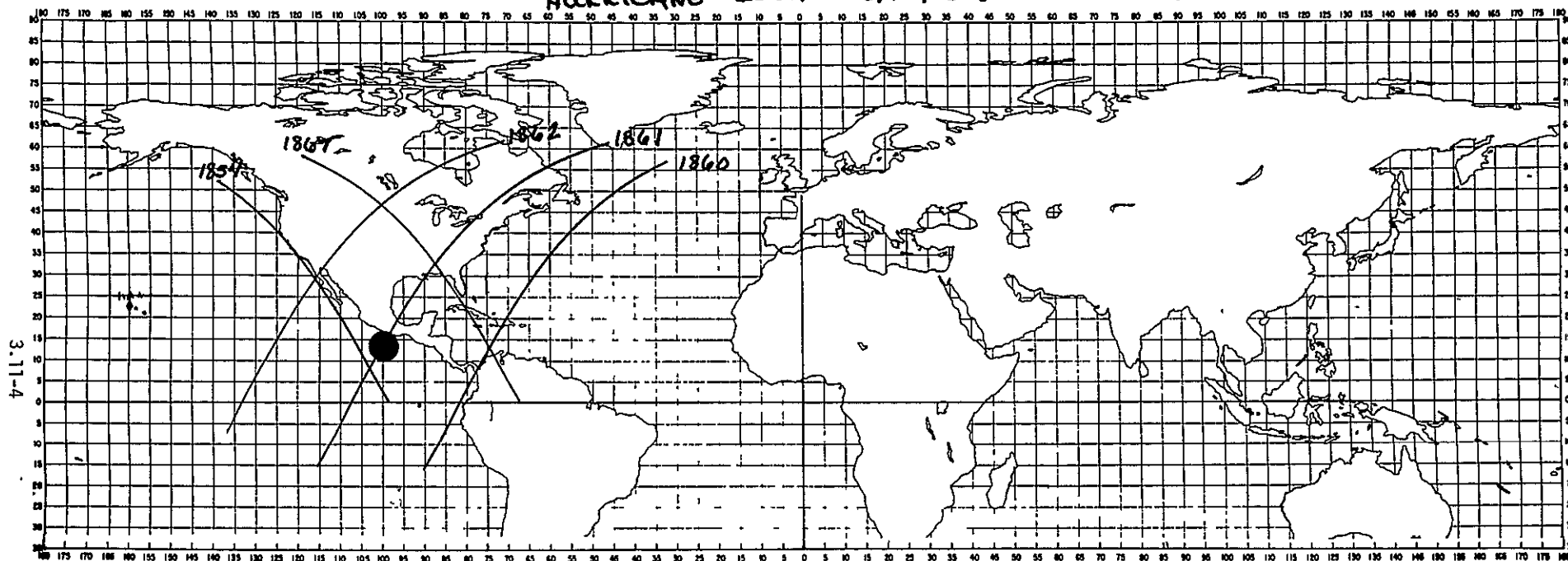
LOCATION

TROPICAL DEPRESSION / TROPICAL STORM (1200Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 12.1 N | 95.8 W |
| 0600Z | 12.1 | 96.4 |
| 1200Z | 12.3 | 97.0 |
| 1800Z | 12.5 | 97.0 |
| 2400Z | 12.6 | 98.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode (L/N) # |
|-------|------------------|--------------------------|-----------------|--------|--------|--------------|
| 1846 | +104.80 | 10 54 22 | 1143Z | 113500 | 114042 | 902 194 |
| 1847 | +79.48 | 12 36 09 | 1322Z | NO | | |
| 1853 | -72.46 | 22 46 51 | 2253Z | NO | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

HURRICANE "ILSA" - 8/19/75 (0000Z - 2400Z)



3.11-4

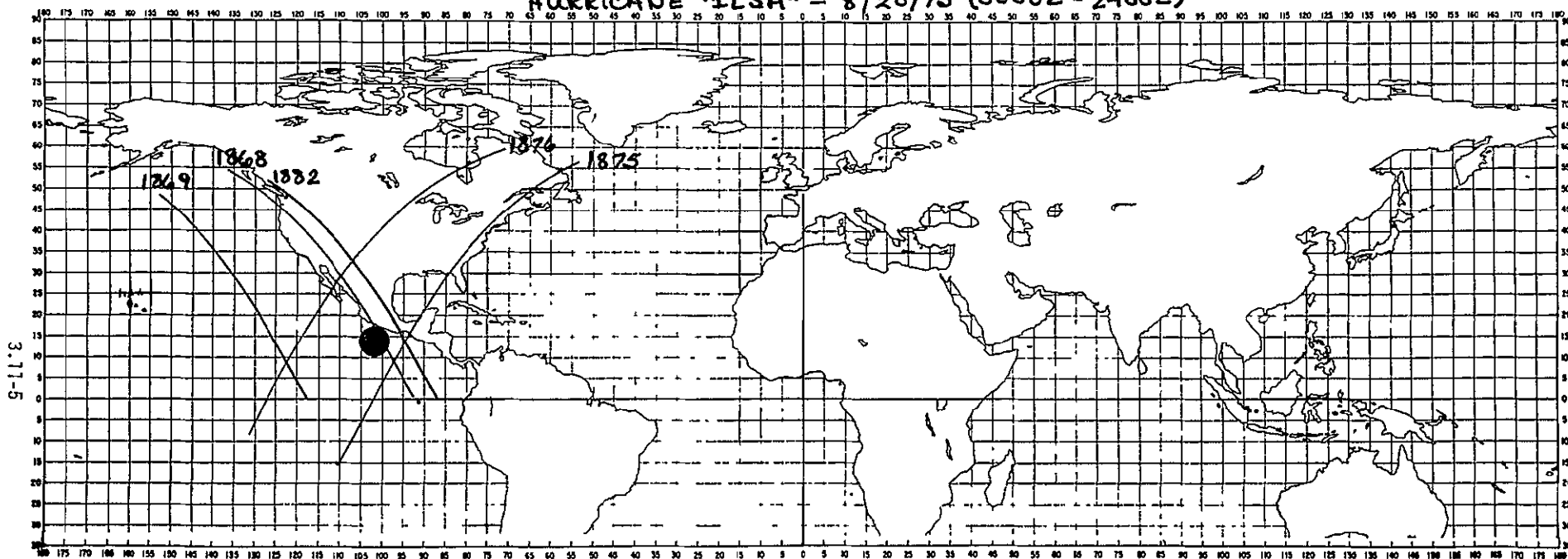
LOCATION

TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 12.6N | 98.5W |
| 0600Z | 12.8 | 99.0 |
| 1200Z | 13.0 | 99.5 |
| 1800Z | 13.3 | 100.0 |
| 2400Z | 13.5 | 100.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 1854 | - 97.78 | 00 28 38 | 0031Z | No | | | |
| 1860 | + 110.25 | 10 39 29 | 1129Z | 111842 | 112248 | 802 | 205 |
| 1861 | + 84.92 | 12 21 16 | 1228Z | No | | | |
| 1862 | + 59.60 | 14 03 04 | 1446Z | No | | | |
| 1867 | - 67.02 | 22 31 59 | 2239Z | 223530 | 224122 | 802 | 211 |

HURRICANE 'ILSA' - 8/20/75 (0000Z - 2400Z)

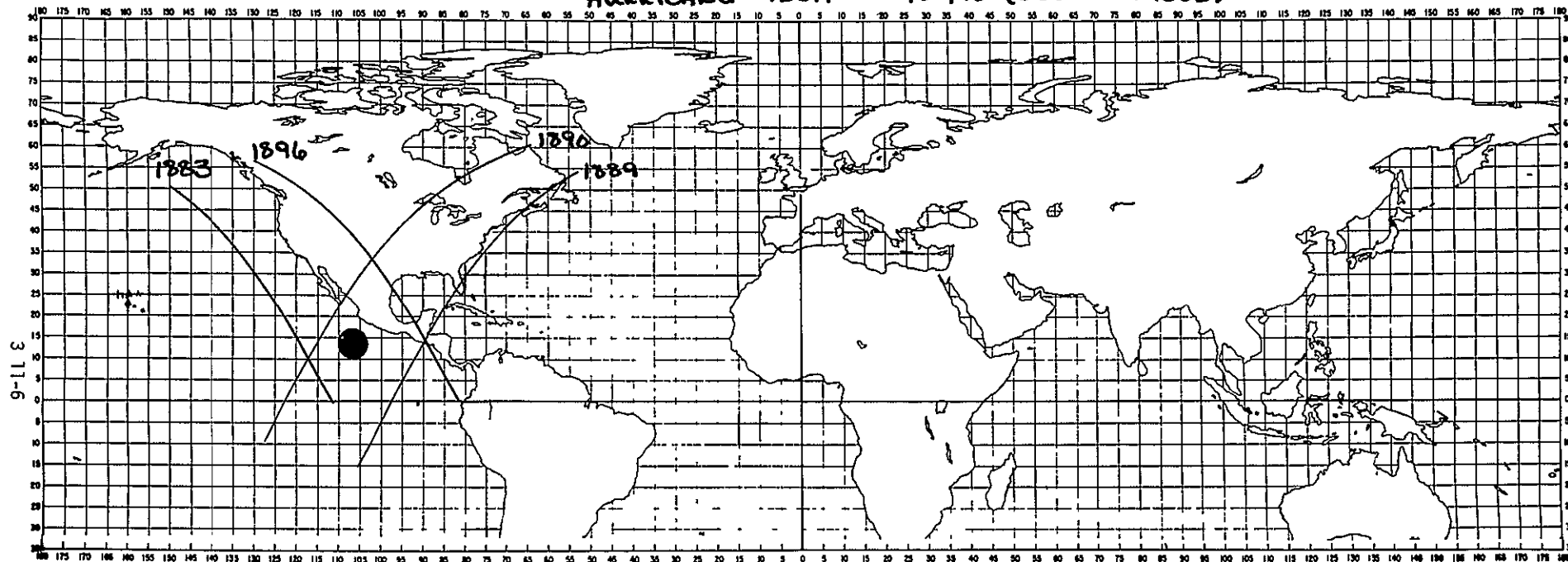


LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 13.5N | 100.5W |
| 0600Z | 13.7 | 101.2 |
| 1200Z | 13.7 | 101.8 |
| 1800Z | 14.0 | 102.8 |
| 2400Z | 14.0 | 104.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 1868 | - 92.34 | 00 13 46 | 0018Z | No | | | |
| 1869 | - 117.66 | 01 55 33 | 0156Z | No | | | |
| 1875 | + 90.40 | 12 08 16 | 1256Z | No | | | |
| 1876 | + 65.07 | 13 48 03 | 1432Z | No | | | |
| 1882 | - 86.35 | 23 55 45 | 0002Z (8/21) | No | | | |

HURRICANE "ILSA" - 8/21/75 (0000Z - 2400Z)

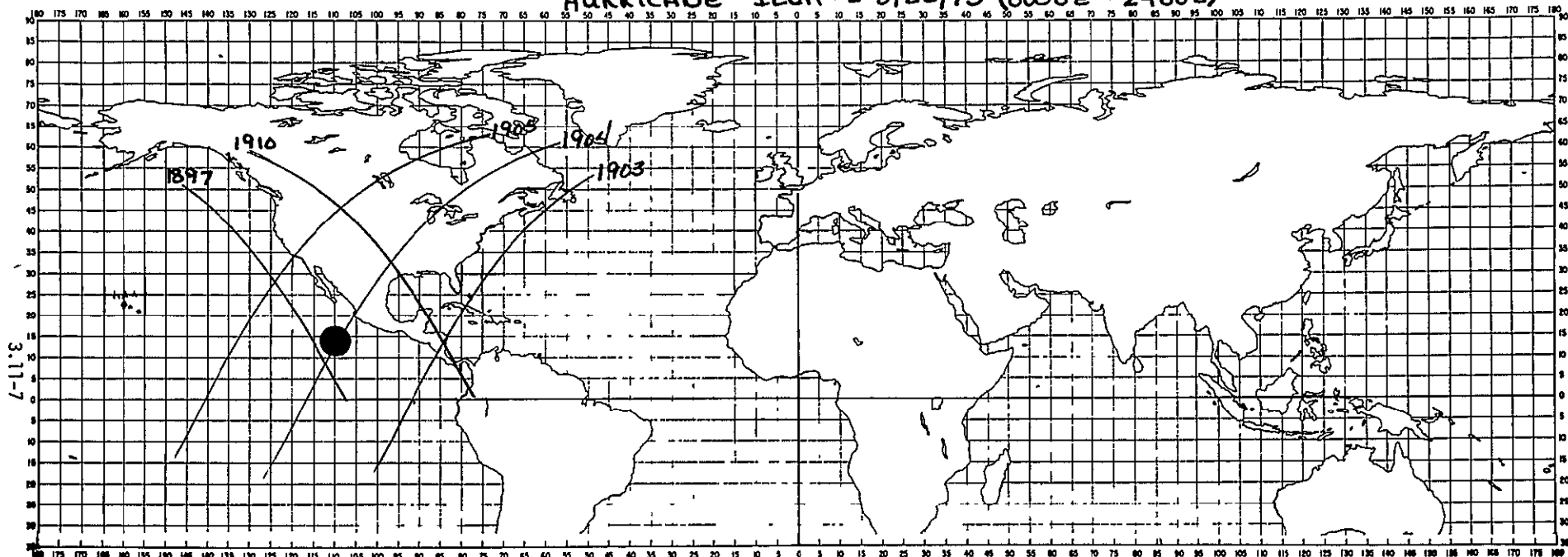


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 14.0N | 104.0W |
| 0600Z | 14.0 | 104.7 |
| 1200Z | 14.0 | 105.5 |
| 1800Z | 14.0 | 106.3 |
| 2400Z | 14.0 | 107.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 1888 | -112.19 | 01 40 32 | 0142E | No | | | |
| 1889 | + 95.87 | 11 51 15 | 1240E | 122427 | 123855 | 802 | 229 |
| 1890 | + 70.55 | 13 33 02 | 1419E | No | | | |
| 1896 | - 81.39 | 23 43 45 | 2351E | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "ILSA" - 8/22/75 (0000Z - 2400Z)

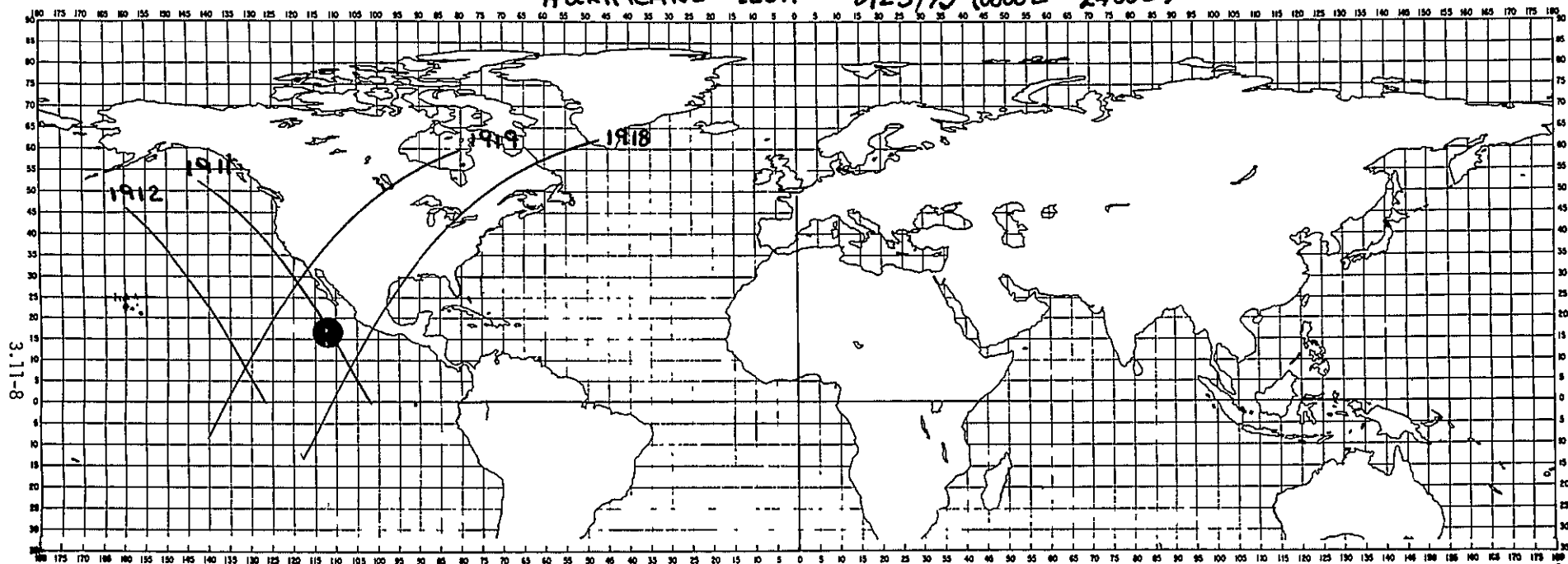


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 14.0N | 107.2W |
| 0600Z | 14.2 | 108.2 |
| 1200Z | 14.3 | 109.5 |
| 1800Z | 14.4 | 110.2 |
| 2400Z | 14.7 | 111.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 1897 | -106.72 | 01 25 32 | 0128Z | Do | | | |
| 1903 | +101.35 | 11 36 14 | 1226Z | 121146 | 122317 | 802 | 258 |
| 1904 | +75.92 | 13 18 01 | 1405Z | No | | | |
| 1905 | +50.70 | 14 59 49 | 1413Z | No | | | |
| 1910 | -75.92 | 23 28 44 | 2336Z | No | | | |

HURRICANE "ILSA" - 8/23/75 (0000Z - 2400Z)

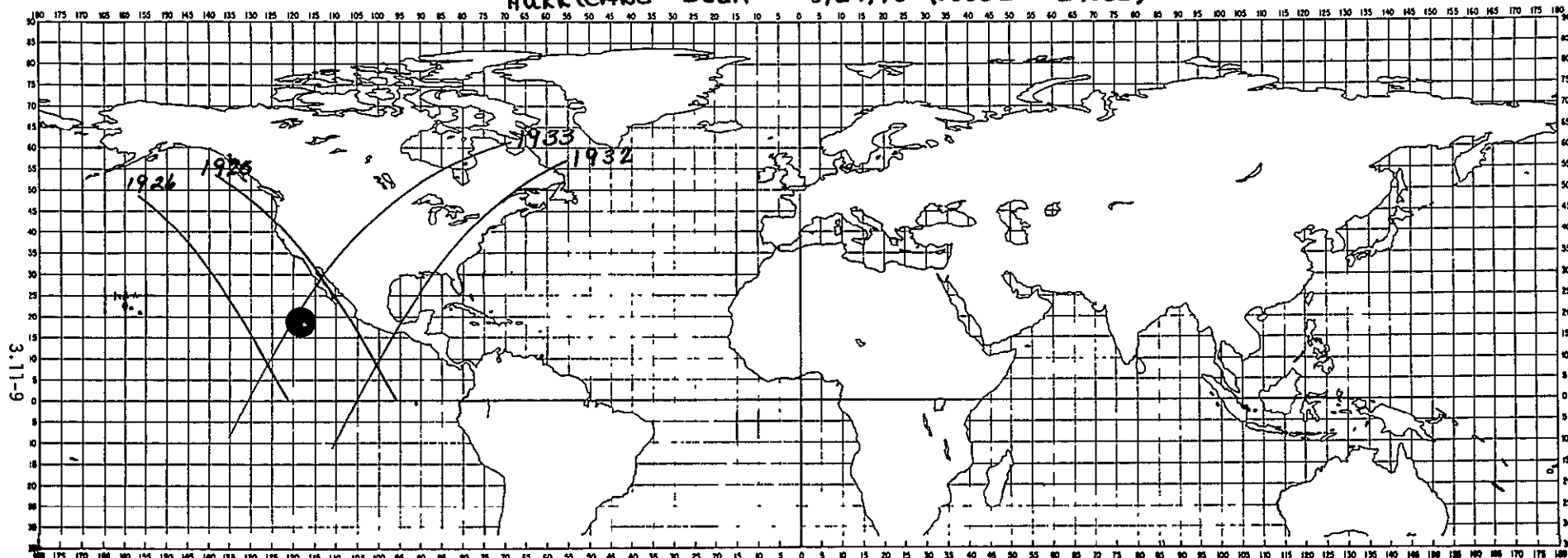


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 14.7N | 111.0W |
| 0600Z | 15.2 | 112.0 |
| 1200Z | 15.9 | 112.9 |
| 1800Z | 16.8 | 113.3 |
| 2400Z | 17.1 | 114.7 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 1911 | -161.24 | 01 10 31 | 0115Z | No | | | |
| 1912 | -136.55 | 02 52 18 | 0253Z | No | | | |
| 1918 | + 81.50 | 13 03 01 | 1350Z | No | | | |
| 1919 | + 56.17 | 14 44 48 | 1528Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "ILSA" - 8/24/75 (0000Z - 2400Z)

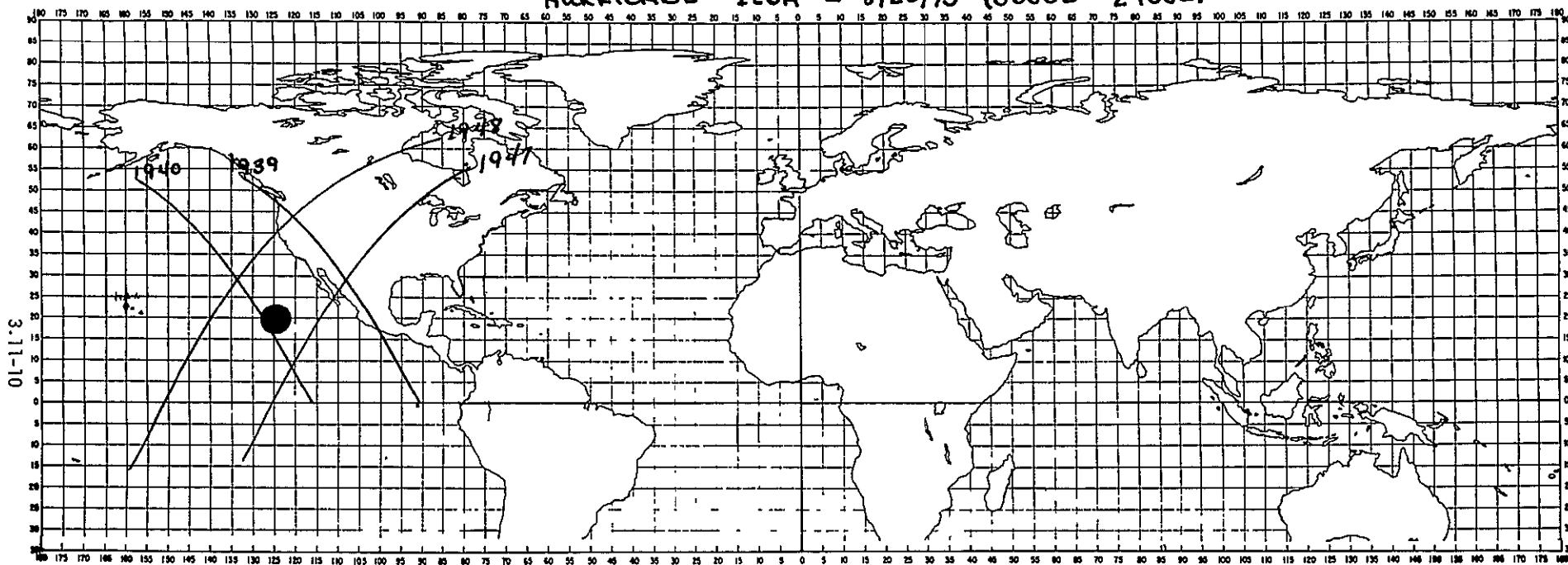


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 17.1N | 114.7W |
| 0600Z | 18.1 | 116.2 |
| 1200Z | 19.0 | 117.5 |
| 1800Z | 19.6 | 119.0 |
| 2400Z | 20.0 | 120.8 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 1935 | - 95.76 | 00 53 30 | 0100Z | No | | | |
| 1936 | -121.09 | 02 37 17 | 0239Z | No | | | |
| 1932 | + 84.97 | 12 45 00 | 1333Z | No | | | |
| 1933 | + 61.65 | 14 29 47 | 1515Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "ILSA" - 8/25/75 (0000Z - 2400Z)

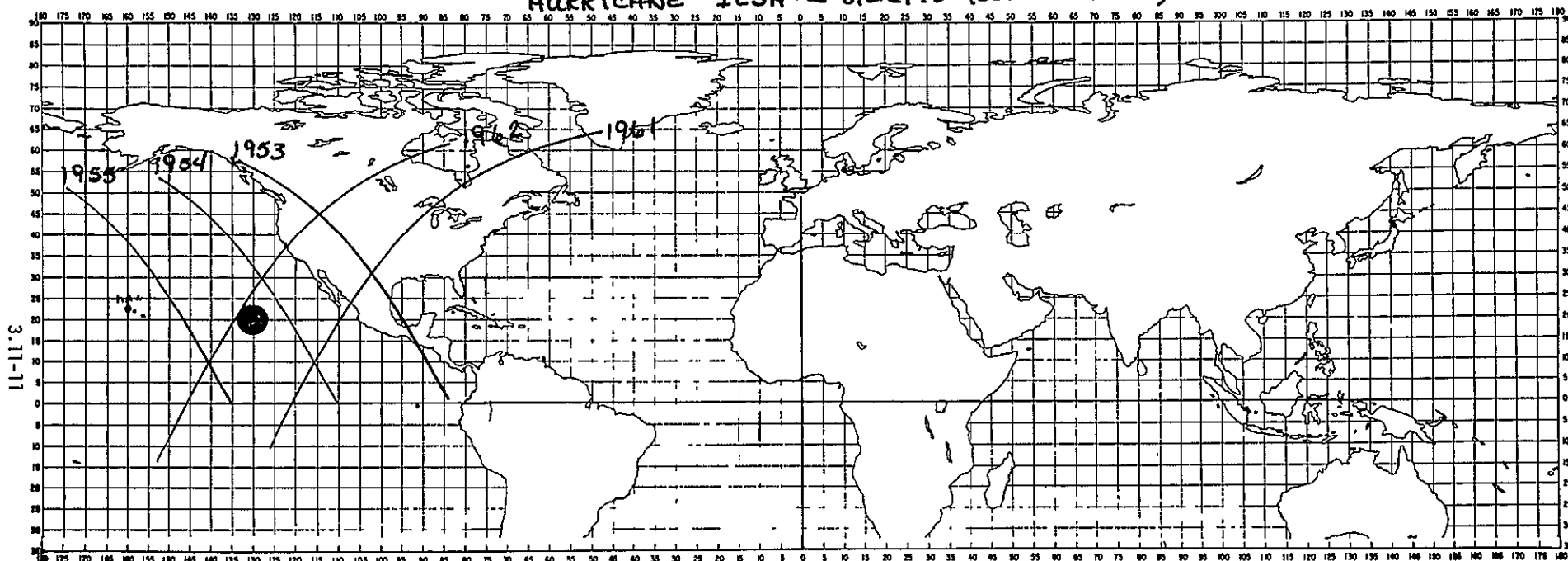


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.0N | 120.8W |
| 0600Z | 20.1 | 122.4 |
| 1200Z | 19.9 | 124.0 |
| 1800Z | 19.7 | 125.0 |
| 2400Z | 19.7 | 126.1 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|---------|--------|------|--------|
| 1939 | -90.29 | 00 40 30 | 0049Z | No | | | |
| 1940 | -115.62 | 02 22 17 | 0227Z | No | | | |
| 1947 | +67.12 | 14 14 46 | 1501Z | No | | | |
| 1948 | +41.30 | 15 55 34 | 1638Z | 1634/28 | 163942 | 802 | 271 |
| | | | | | | | |
| | | | | | | | |

HURRICANE "ILSA" - 8126175 (0000Z - 1800Z)



LOCATION

TROPICAL STORM/TROPICAL DEPRESSION (1800Z)

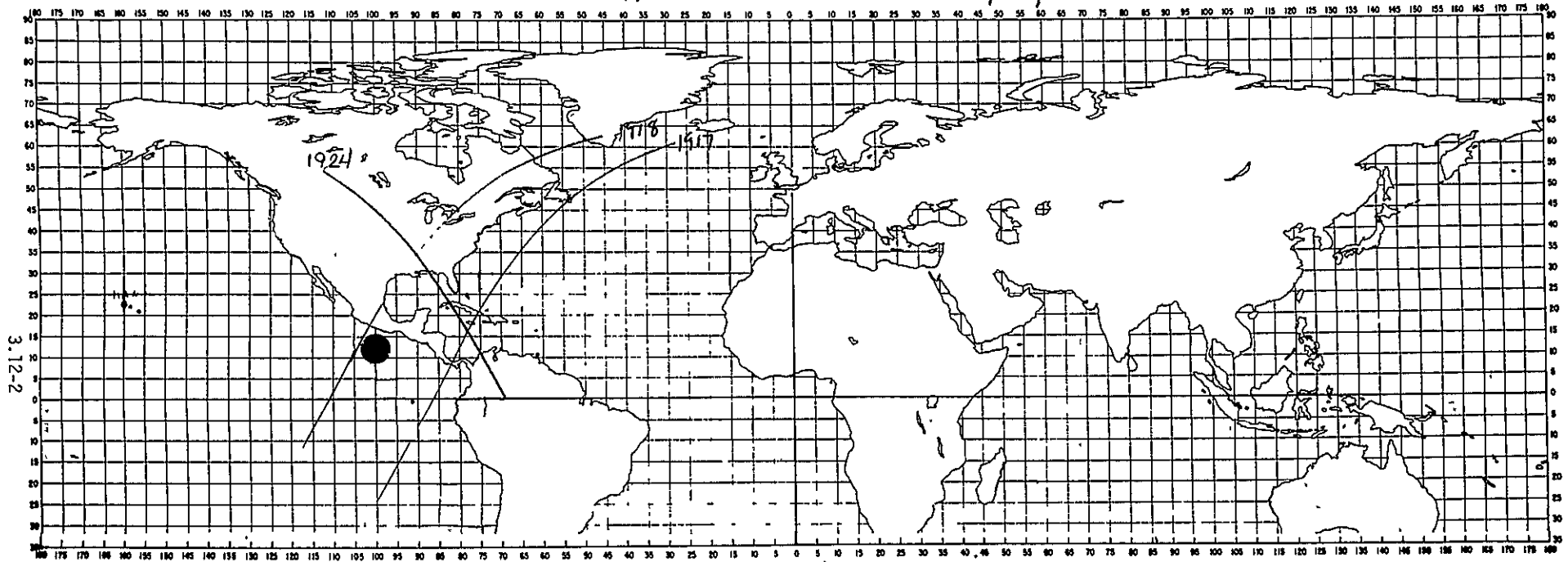
| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 19.7N | 126.1W |
| 0600Z | 19.8 | 127.3 |
| 1200Z | 20.0 | 128.5 |
| 1800Z | 20.3 | 129.9 |
| | | |
| | | |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 1953 | - 84.82 | 00 25 29 | 0036Z | No | | | |
| 1954 | - 110.14 | 02 07 16 | 0214Z | No | | | |
| 1955 | - 135.46 | 03 49 03 | 0352Z | No | | | |
| 1961 | + 72.60 | 13 59 46 | 1447Z | No | | | |
| 1962 | + 47.28 | 15 41 33 | 1625Z | 162044 | 164601 | 802 | 285 |
| | | | | | | | |

STORM: HURRICANE JEWELDATE: AUGUST 23 - AUGUST 31, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------------------------|
| | | Latitude | Longitude | | | |
| 8/23 | 1800Z | 12.0N | 100.0W | | 25 | Tropical Depression |
| 8/24 | 0000Z | 12.5N | 100.3W | | 30 | Tropical Depression |
| | 0600Z | 13.0 | 101.8 | | 30 | |
| | 1200Z | 13.7 | 103.1 | | 30 | |
| | 1800Z | 14.3 | 104.2 | | 30 | |
| 8/25 | 0000Z | 14.9N | 105.3W | | 30 | Tropical Depression |
| | 0600Z | 15.3 | 106.0 | | 30 | Tropical Depression Tropical Storm |
| | 1200Z | 15.5 | 106.6 | | 30 | |
| | 1800Z | 15.8 | 107.1 | | 40 | |
| 8/26 | 0000Z | 16.0N | 107.8W | | 45 | Tropical Storm |
| | 0600Z | 16.2 | 108.5 | | 45 | |
| | 1200Z | 16.3 | 109.3 | | 45 | |
| | 1800Z | 16.4 | 109.8 | | 50 | |
| 8/27 | 0000Z | 16.4N | 110.2W | | 55 | Tropical Storm |
| | 0600Z | 16.4 | 110.5 | | 55 | Tropical Storm |
| | 1200Z | 16.5 | 111.0 | | 65 | Hurricane |
| | 1800Z | 16.5 | 111.5 | | 55 | Tropical Storm |
| 8/28 | 0000Z | 16.4N | 112.2W | | 55 | Tropical Storm |
| | 0600Z | 16.3 | 113.1 | | 55 | |
| | 1200Z | 16.3 | 114.1 | | 55 | |
| | 1800Z | 16.3 | 115.3 | | 50 | |
| 8/29 | 0000Z | 16.4N | 116.5W | | 45 | Tropical Storm |
| | 0600Z | 16.7 | 118.0 | | 45 | |
| | 1200Z | 17.0 | 119.0 | | 45 | |
| | 1800Z | 17.5 | 120.2 | | 40 | |
| 8/30 | 0000Z | 18.3N | 121.3W | | 40 | Tropical Storm |
| | 0600Z | 18.6 | 122.8 | | 45 | |
| | 1200Z | 18.9 | 124.0 | | 40 | |
| | 1800Z | 19.0 | 125.0 | | 35 | |
| 8/31 | 0000Z | 19.0N | 126.2W | | 30 | Tropical Depression |
| | 0600Z | 19.0 | 127.3 | | 30 | |
| | 1200Z | 19.0 | 129.0 | | 25 | |
| | 1800 | 19.0 | 129.0 | | 25 | |

HURRICANE "JEWEL" - 8/23/75 (1800Z - 2400Z)



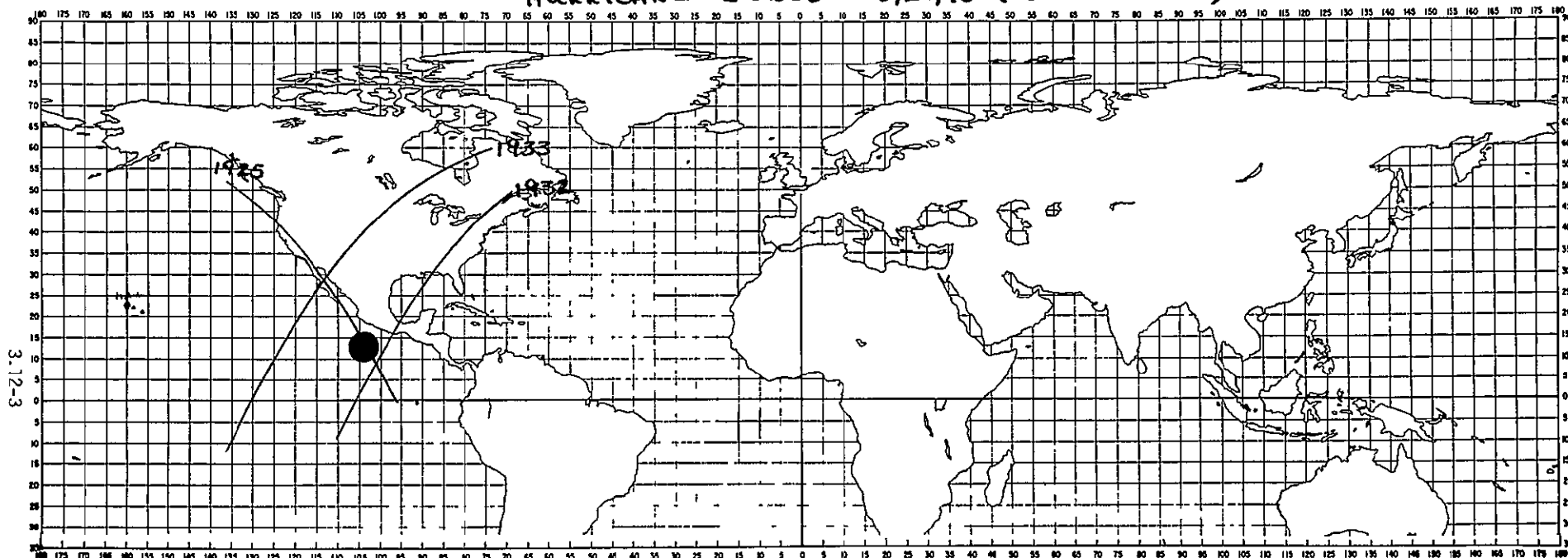
3.12-2

LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1800Z | 12.0N | 100.0W |
| 2400Z | 12.5 | 100.3 |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | Mode | Unit# |
|-------|------------------|--------------------------|-----------------|----|-----|------|-------|
| 1917 | +106.82 | 11 21 14 | 1229Z | NO | | | |
| 1918 | + 81.50 | 13 03 01 | 1350Z | NO | | | |
| 1924 | - 70.44 | 23 13 43 | 2320Z | NO | | | |
| | | | | | | | |
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| | | | | | | | |

HURRICANE "JEWEL" - 8/24/75 (0000Z - 2400Z)



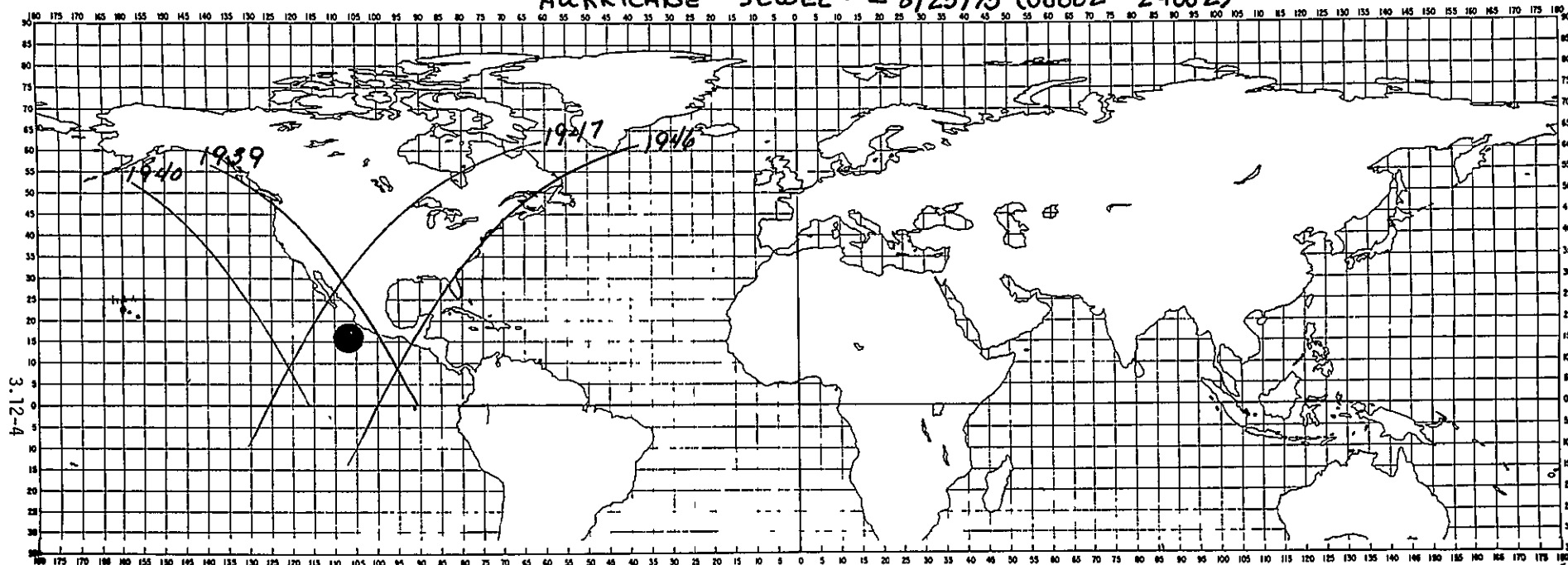
LOCATION

TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 12.5N | 100.3W |
| 0600Z | 13.0 | 101.8 |
| 1200Z | 13.7 | 103.1 |
| 1800Z | 14.3 | 104.2 |
| 2400Z | 14.9 | 105.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 1925 | - 95.76 | 00 55 30 | 0059Z | No | | | |
| 1932 | + 86 97 | 12 45 30 | 1333Z | No | | | |
| 1933 | + 61.65 | 14 29 47 | 1514Z | No | | | |
| | | | | | | | |
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HURRICANE "JEWEL" - 8/25/75 (0000Z - 2400Z)

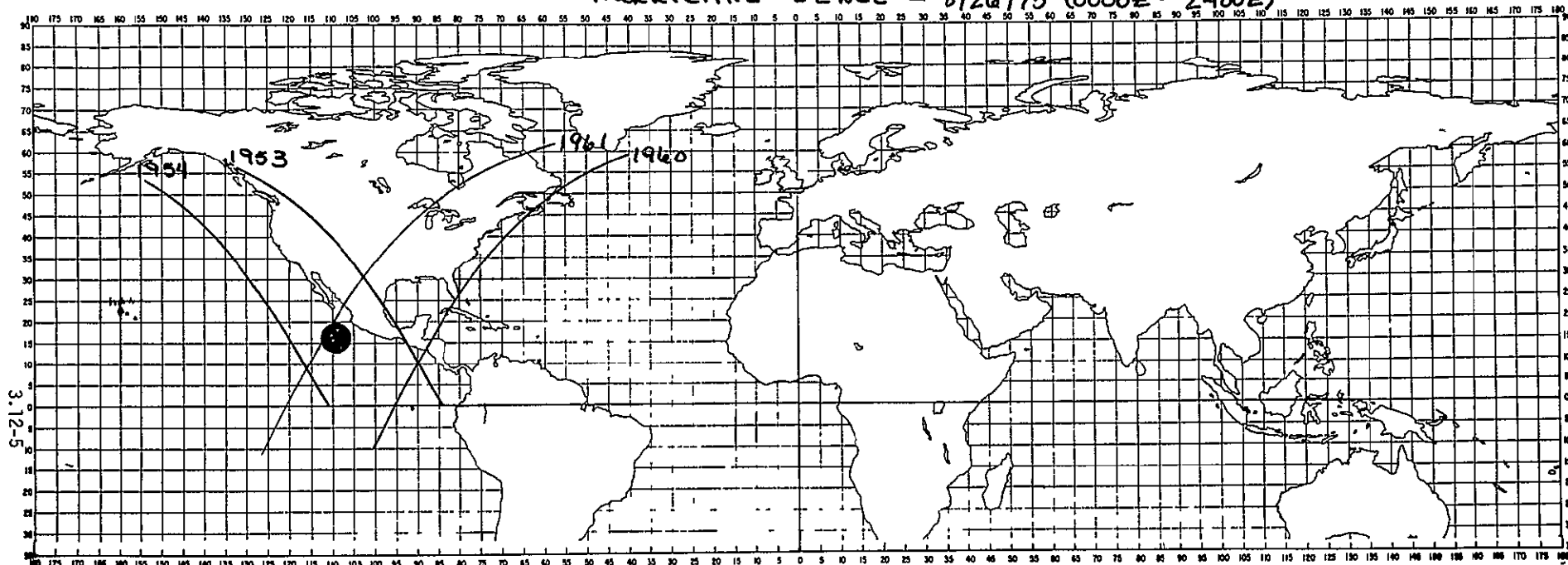


LOCATION TROPICAL DEPRESSION/TROPICAL STORM (1800Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 14.9N | 105.3W |
| 0600Z | 15.3 | 106.0 |
| 1200Z | 15.5 | 106.6 |
| 1800Z | 15.8 | 107.1 |
| 2400Z | 16.0 | 107.8 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 1939 | - 90.29 | 00 40 30 | 0045Z | No | | | |
| 1940 | -115.62 | 02 22 17 | 0224Z | No | | | |
| 1944 | + 92.45 | 12 32 59 | 1320Z | No | | | |
| 1947 | +67.12 | 14 14 46 | 1459Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "JEWEL" - 8/26/75 (0000Z - 2400Z)

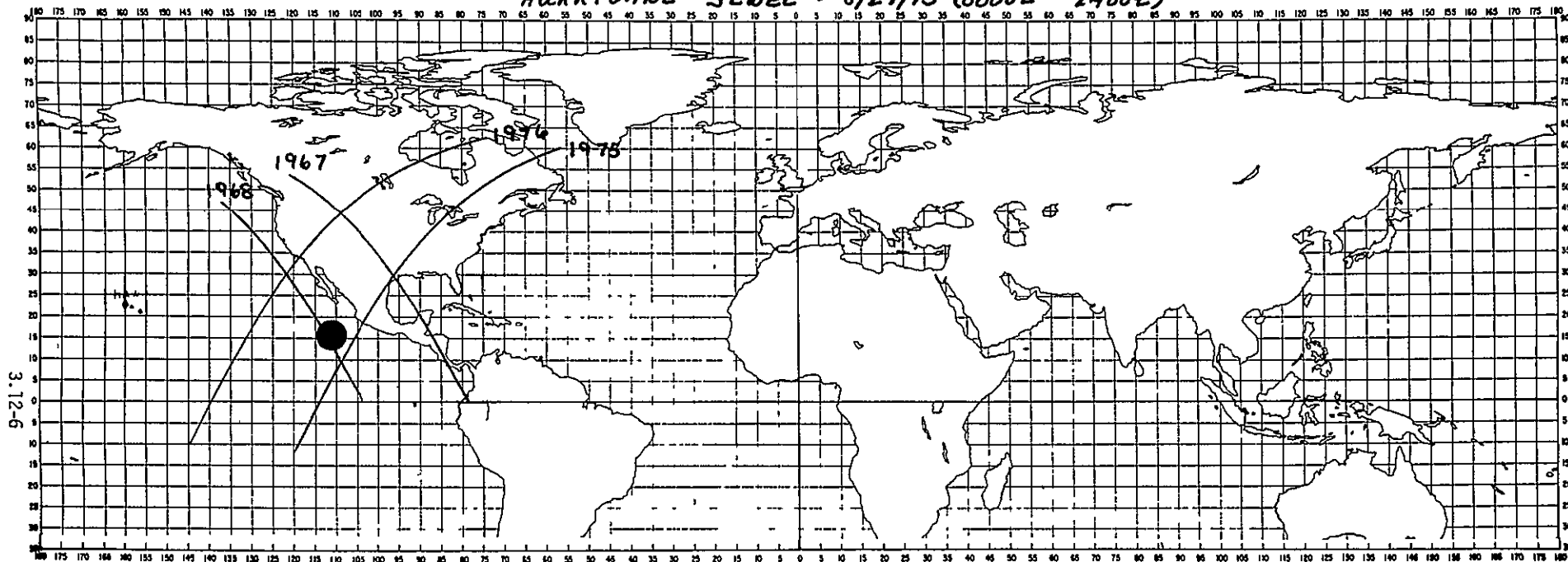


LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.0N | 107.8W |
| 0600Z | 16.2 | 108.5 |
| 1200Z | 16.3 | 109.3 |
| 1800Z | 16.4 | 109.8 |
| 2400Z | 16.4 | 110.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 1953 | - 84.82 | 00 25 29 | 0032Z | No | | | |
| 1954 | - 110.14 | 02 07 16 | 0210Z | No | | | |
| 1960 | + 97.92 | 12 17 59 | 1306Z | No | | | |
| 1961 | + 72.60 | 13 59 46 | 1445Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "JEWEL" - 8/27/75 (0000Z - 2400Z)

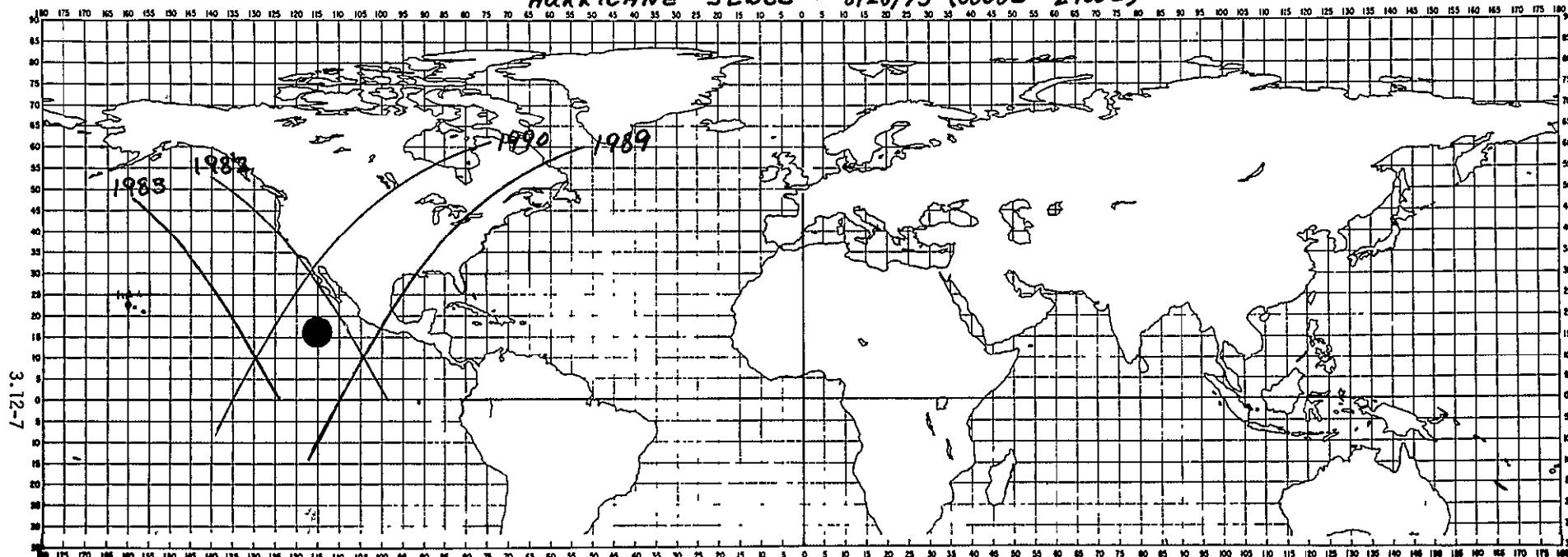


LOCATION TROPICAL STORM/ HURRICANE (1200Z - 1800Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.4N | 110.2W |
| 0600Z | 16.4 | 110.5 |
| 1200Z | 16.5 | 111.0 |
| 1800Z | 16.5 | 111.5 |
| 2400Z | 16.4 | 112.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 1967 | - 79.34 | 00 10 20 | 0018Z | No | | | |
| 1968 | -104.66 | 01 52 02 | 0157Z | No | | | |
| 1975 | + 78.07 | 13 44 45 | 1429Z | No | | | |
| 1976 | + 52.75 | 15 25 32 | 1533Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "JEWEL" - 8/28/75 (0000Z - 2400Z)



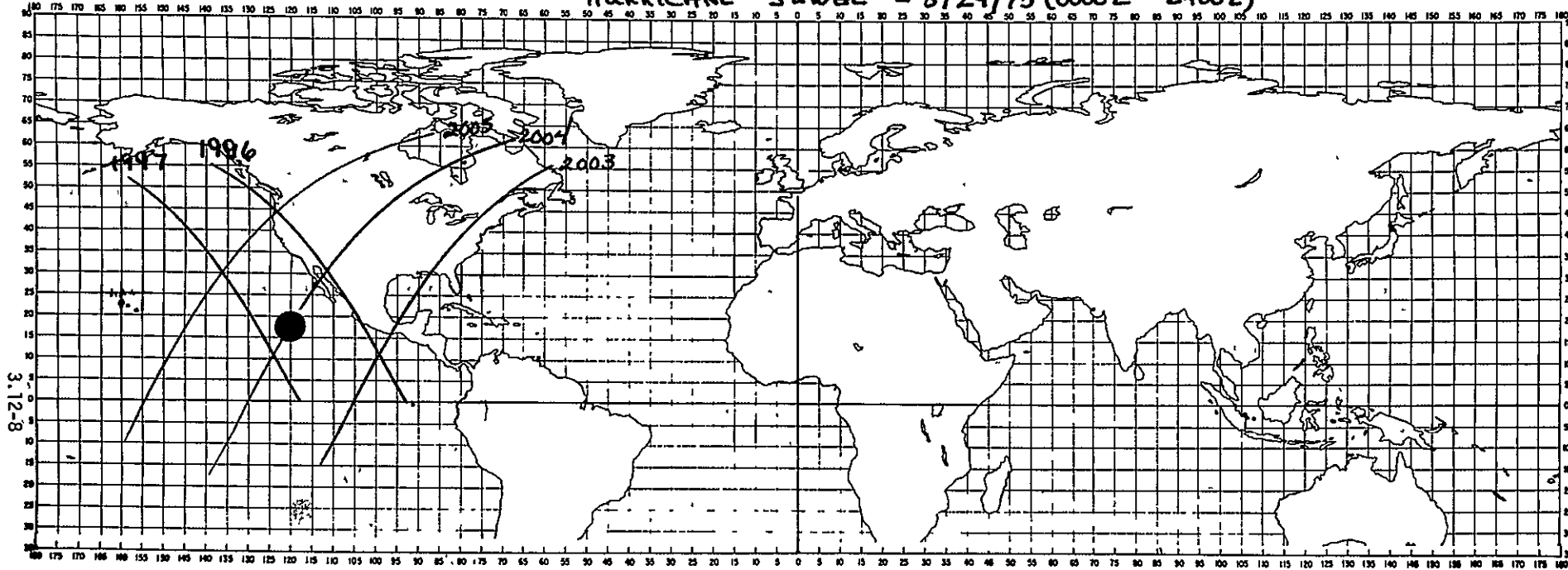
LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.4N | 112.2W |
| 0600Z | 16.3 | 113.1 |
| 1200Z | 16.3 | 114.1 |
| 1800Z | 16.3 | 115.3 |
| 2400Z | 16.4 | 116.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 1982 | - 99.19 | 01 37 15 | 0143Z | No | | | |
| 1983 | -124.51 | 03 16 02 | 0318Z | No | | | |
| 1989 | + 83.59 | 13 25 44 | 1413Z | No | | | |
| 1990 | +58.22 | 15 11 32 | 1556Z | No | | | |
| | | | | | | | |
| | | | | | | | |

3

HURRICANE "JEWEL" - 8/29/75 (0000Z - 2400Z)



LOCATION

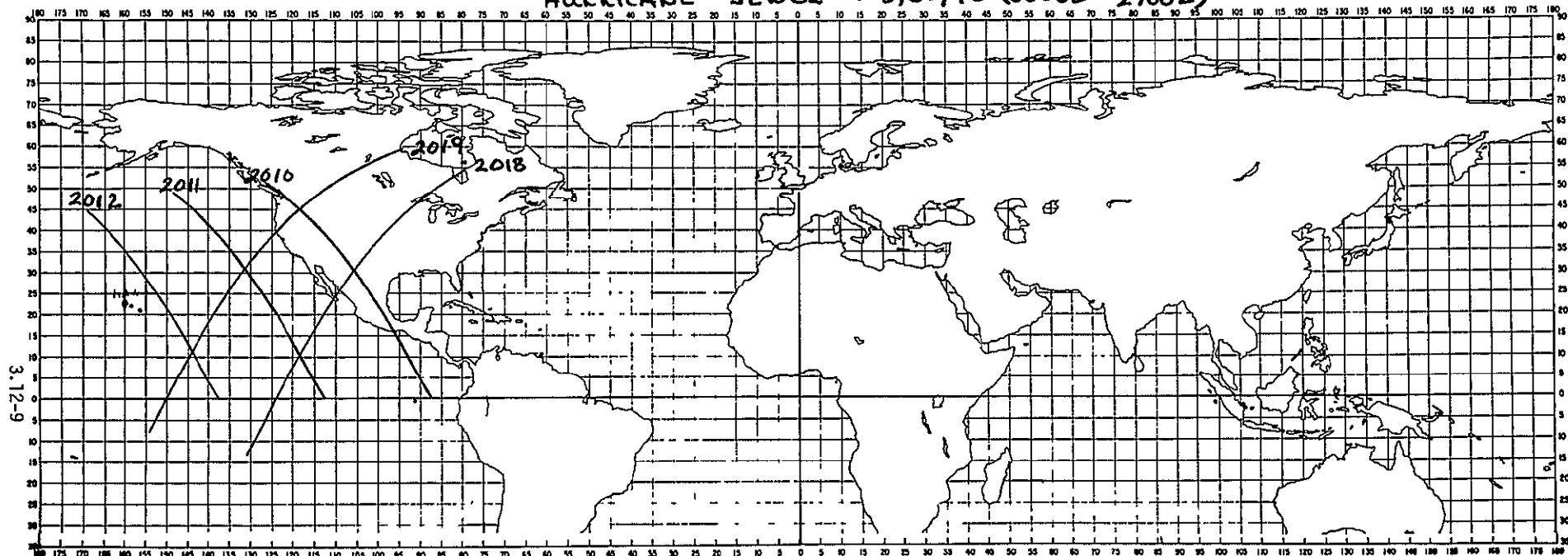
TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.4N | 116.5W |
| 0600Z | 16.7 | 118.0 |
| 1200Z | 17.0 | 119.0 |
| 1800Z | 17.5 | 120.2 |
| 2400Z | 18.3 | 121.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 1996 | -93.71 | 01 22 14 | 0129Z | No | | | |
| 1997 | -118.04 | 03 04 01 | 0307Z | No | | | |
| 2003 | +89.02 | 13 14 44 | 1404Z | No | | | |
| 2004 | +63.70 | 14 56 31 | 1541Z | No | | | |
| 2005 | +38.33 | 16 38 18 | 1720Z | 171503 | 172057 | 802 | 314 |

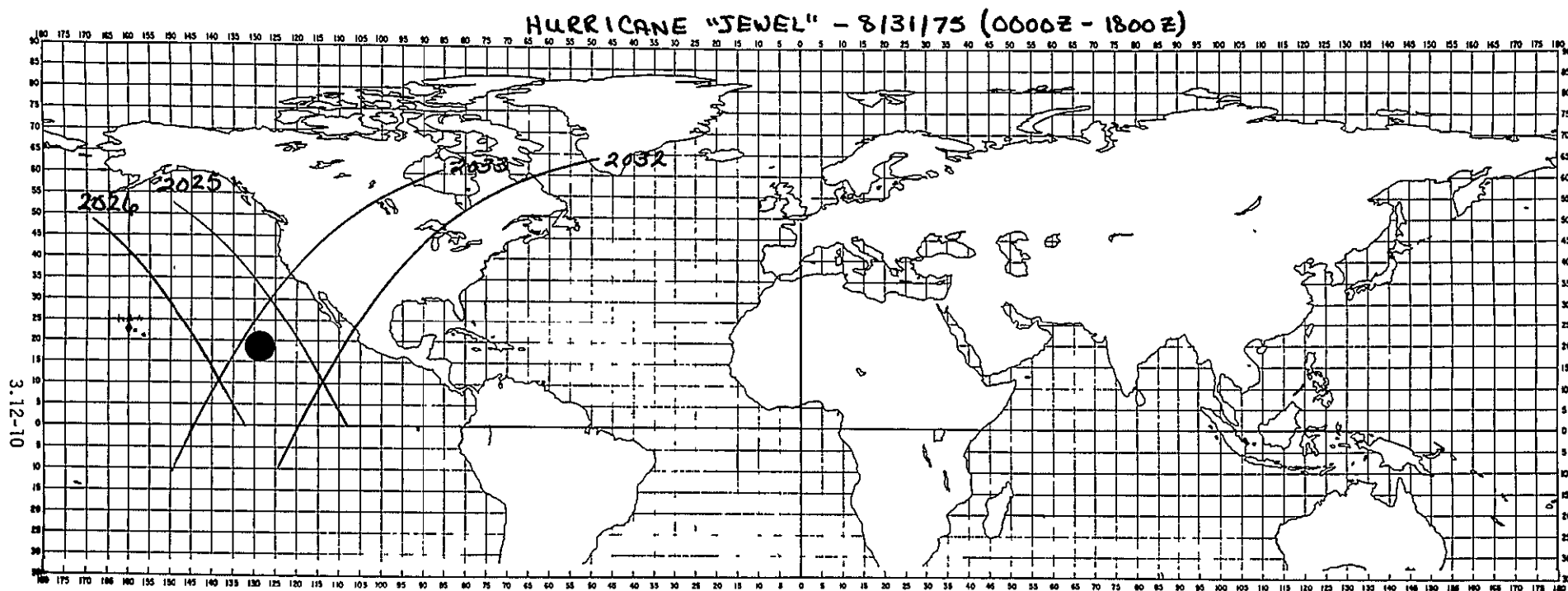
C-3

HURRICANE "JEWEL" - 8/30/75 (0000Z - 2400Z)



| LOCATION | | |
|----------------|----------|-----------|
| TROPICAL STORM | | |
| TIME | LATITUDE | LONGITUDE |
| 0000Z | 18.3N | 121.8W |
| 0600Z | 18.6 | 122.8 |
| 1200Z | 18.9 | 124.0 |
| 1800Z | 19.0 | 125.0 |
| 2400Z | 19.0 | 126.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2010 | -88.24 | 01 07 13 | 0116Z | No | | | |
| 2011 | -113.56 | 02 48 00 | 0251Z | No | | | |
| 2012 | -138.58 | 04 30 47 | 0432Z | No | | | |
| 2018 | +69.17 | 14 41 30 | 1527Z | No | | | |
| 2019 | +43.35 | 16 23 17 | 1706Z | 170145 | 170647 | 802 | 326 |



LOCATION

TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 19.0N | 126.2W |
| 0600Z | 19.0 | 127.3 |
| 1200Z | 19.0 | 129.0 |
| 1800Z | 19.0 | 129.0 |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2025 | -108.09 | 02 34 00 | 0241E | No | | | |
| 2026 | -133.41 | 04 15 47 | 0418E | No | | | |
| 2032 | +74.66 | 14 26 29 | 1514E | No | | | |
| 2033 | +49.33 | 16 08 16 | 1653E | 164755 | 165237 | 802 | 3.95 |
| | | | | | | | |
| | | | | | | | |

STORM: HURRICANE KATRINA

DATE: AUGUST 28 - SEPTEMBER 7, 1975

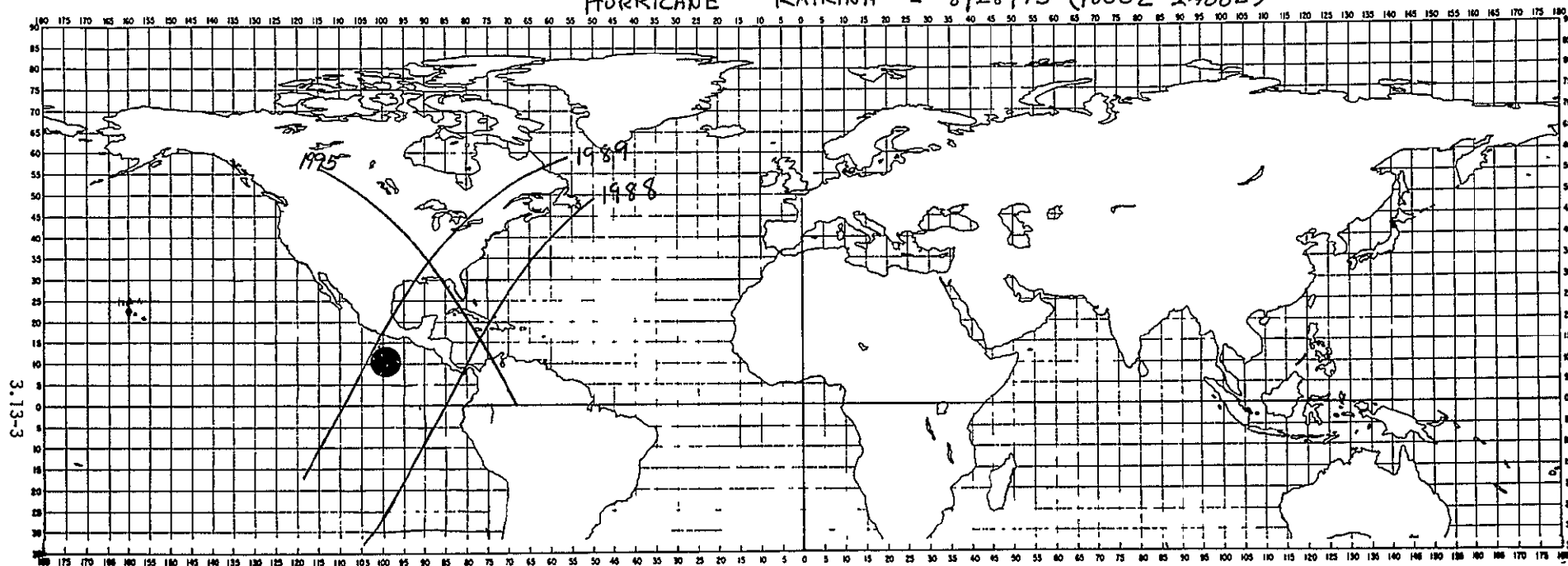
| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|----------|----------|-----------|---------------|------------|---------------------------------|
| | | Latitude | Longitude | | | |
| 8/28 | 1800Z | 10.0N | 100.0W | | 30 | Tropical Depression |
| 8/29 | 0000Z | 10.5N | 101.0W | | 35 | Tropical Storm Hurricane |
| | 0600Z | 10.9 | 102.0 | | 35 | |
| | 1200Z | 11.2 | 102.9 | | 45 | |
| | 1800Z | 11.5 | 103.7 | | 65 | |
| 8/30 | 0000Z | 11.7N | 104.4W | | 65 | Hurricane |
| | 0600Z | 11.9 | 105.0 | | 70 | |
| | 1200Z | 12.2 | 105.0 | | 70 | |
| | 1800Z | 12.4 | 106.0 | | 70 | |
| 8/31 | 0000Z | 12.6N | 106.4W | | 70 | Hurricane |
| | 0600Z | 13.2 | 107.2 | | 70 | |
| | 1200Z | 14.0 | 108.1 | | 65 | |
| | 1800Z | 14.8 | 108.9 | | 65 | |
| 9/1 | 0000Z | 15.9N | 109.5W | | 75 | Hurricane |
| | 0600Z | 16.7 | 109.9 | | 80 | |
| | 1200Z | 17.5 | 110.2 | | 80 | |
| | 1800Z | 18.0 | 110.6 | | 80 | |
| 9/2 | 0000Z | 18.5N | 111.0W | | 80 | Hurricane |
| | 0600Z | 19.0 | 111.5 | | 95 | |
| | 1200Z | 19.4 | 111.8 | | 90 | |
| | 1800Z | 19.7 | 112.1 | | 90 | |
| 9/3 | 0000Z | 19.9N | 112.5W | | 100 | Hurricane |
| | 0600Z | 20.2 | 113.0 | | 110 | |
| | 1200Z | 20.4 | 113.7 | | 115 | |
| | 1800Z | 20.7 | 114.5 | | 110 | |
| 9/4 | 0000Z | 20.9N | 115.2W | | 110 | Hurricane |
| | 0600Z | 21.1 | 116.0 | | 105 | |
| | 1200Z | 21.3 | 117.0 | | 100 | |
| | 1800Z | 21.6 | 118.0 | | 80 | |

STORM: HURRICANE KATRINA (CONT.)

DATE: AUGUST 28 - SEPTEMBER 7, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 9/5 | 0000Z | 21.7N | 119.0W | | 70 | Hurricane |
| | 0600Z | 21.8 | 120.0 | | 65 | |
| | 1200Z | 21.8 | 121.1 | | 50 | Tropical Storm |
| | 1800Z | 21.8 | 122.3 | | 45 | |
| 9/6 | 0000Z | 21.7N | 123.5W | | 40 | Tropical Storm |
| | 0600Z | 21.6 | 125.0 | | 35 | |
| | 1200Z | 21.6 | 126.3 | | 30 | Tropical Depression |
| | 1800Z | 21.6 | 127.6 | | 30 | |
| 9/7 | 0000Z | 21.6N | 128.9W | | 25 | Tropical Depression |

HURRICANE "KATRINA" - 8/28/75 (1800Z-2400Z)

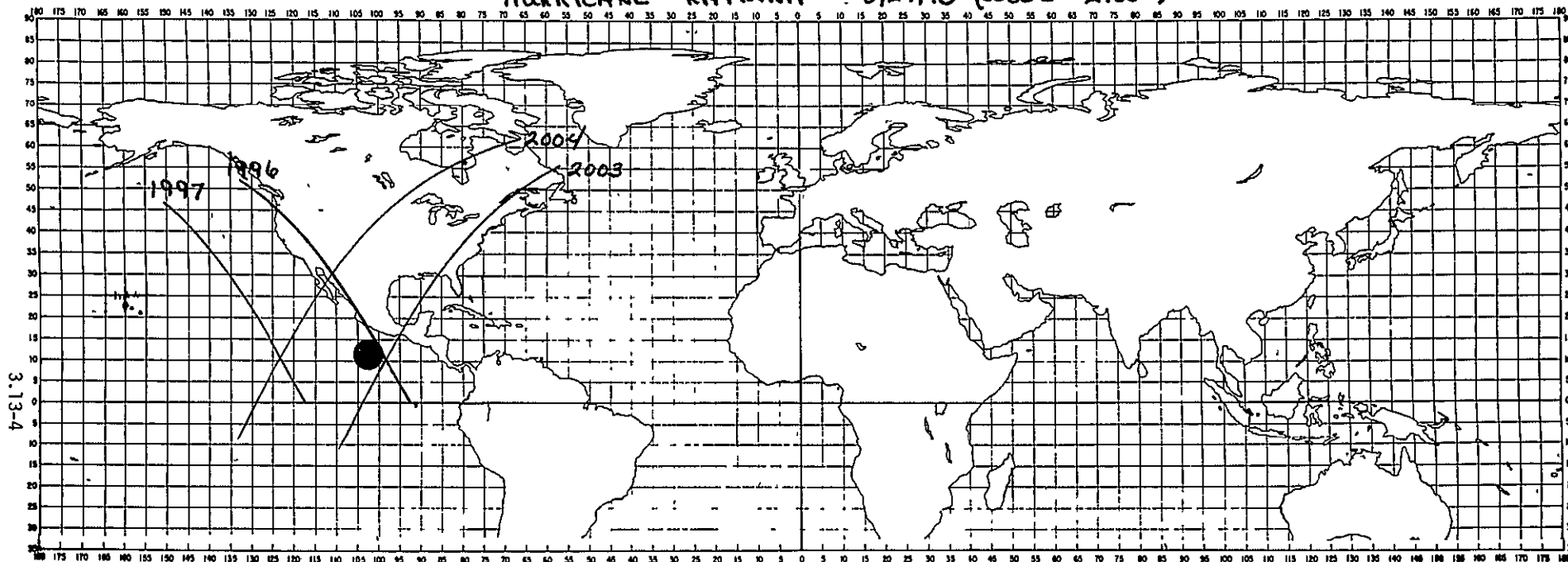


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1800Z | 10.0N | 100.0W |
| 2400Z | 10.5 | 101.0 |
| | | |
| | | |
| | | |
| | | |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 1988 | +108.87 | 11 47 57 | 12 38Z | 122105 | 123225 | 802 | 303 |
| 1989 | +83.59 | 13 25 44 | 14 13Z | NO | | | |
| 1995 | -68.39 | 23 40 27 | 2347Z | NO | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

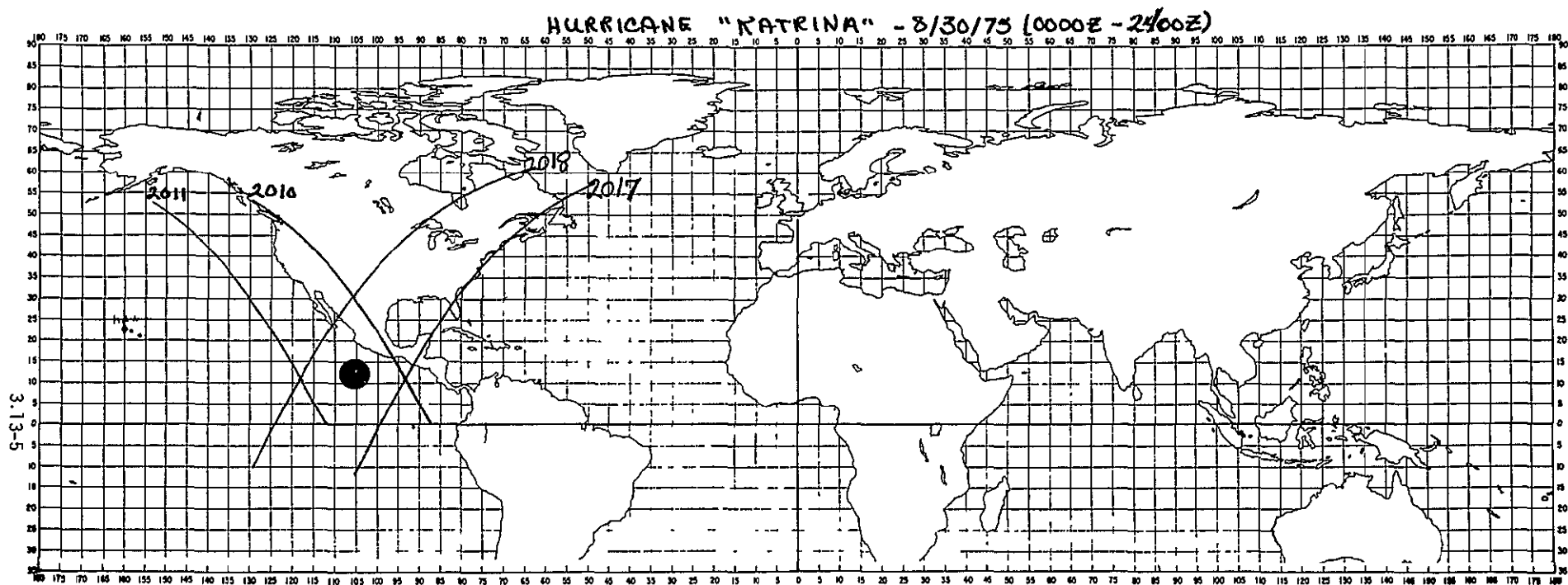
HURRICANE "KATRINA" - 8/29/75 (0000Z - 2400Z)



LOCATION TROPICAL STORM/HURRICANE (1800Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 10.5N | 101.0W |
| 0600Z | 10.9 | 102.0 |
| 1200Z | 11.2 | 102.9 |
| 1800Z | 11.5 | 103.7 |
| 2400Z | 11.7 | 104.4 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 1996 | - 93.71 | 01 22 14 | 0125Z | No | | | |
| 1997 | -118.04 | 03 04 01 | 0304Z | No | | | |
| 2003 | + 89.02 | 13 14 44 | 1403Z | No | | | |
| 2004 | + 63.70 | 14 56 31 | 1540Z | No | | | |
| | | | | | | | |
| | | | | | | | |

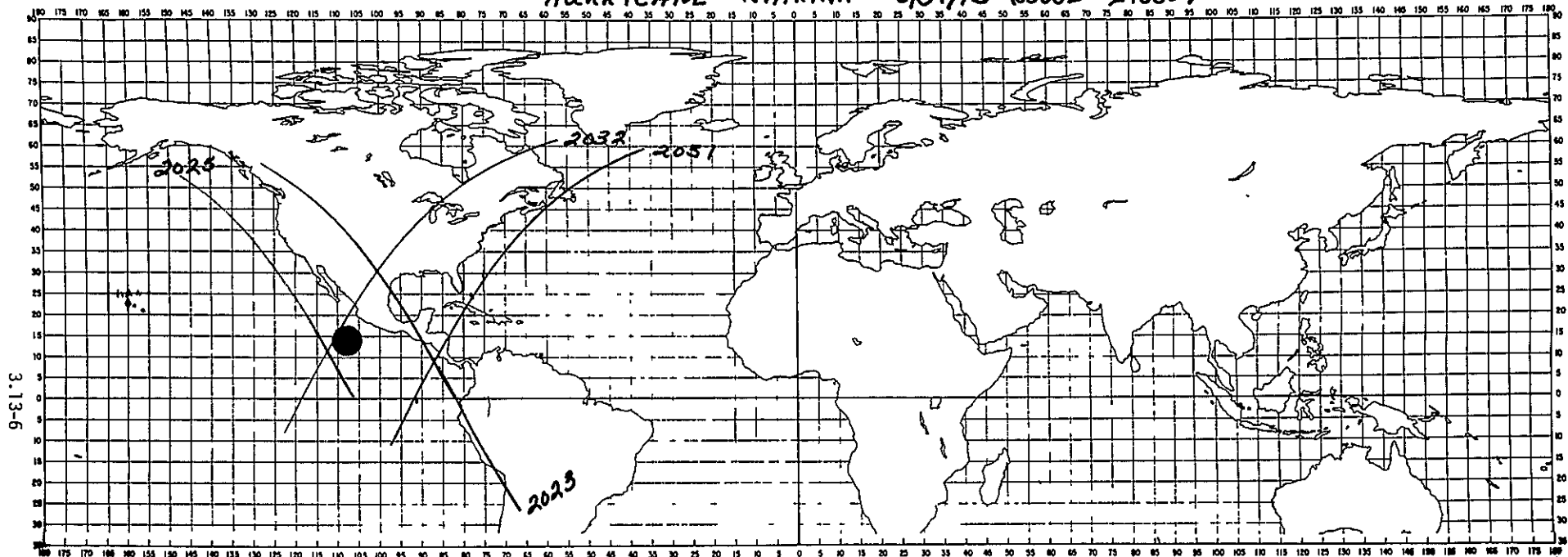


LOCATION
HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 11.7N | 104.4W |
| 0600Z | 11.9 | 105.0 |
| 1200Z | 12.2 | 105.5 |
| 1800Z | 12.4 | 106.0 |
| 2400Z | 12.6 | 106.4 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2010 | - 88.24 | 01 07 13 | 0112Z | No | | | |
| 2011 | - 113.50 | 02 48 00 | 0249Z | No | | | |
| 2017 | + 94.55 | 12 59 28 | 1348Z | 133415 | 134731 | 802 | 325 |
| 2018 | + 69.23 | 14 41 15 | 1427Z | No | | | |
| | | | | | | | |

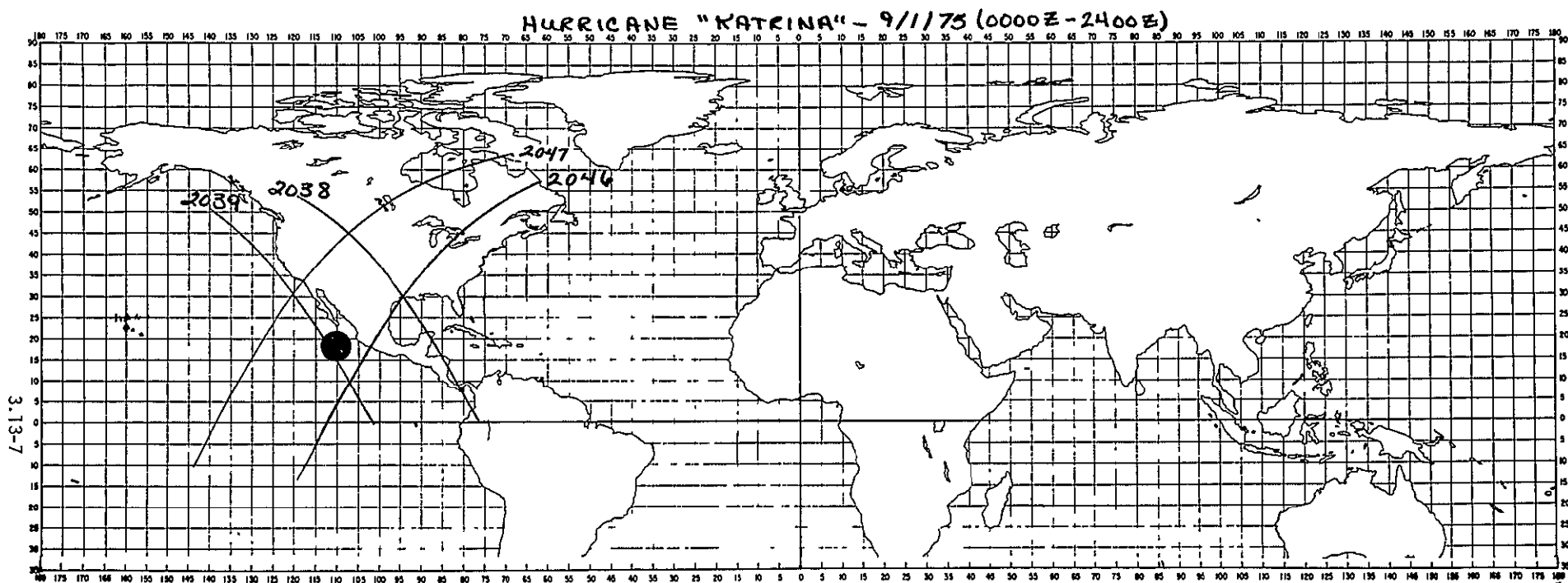
HURRICANE "KATRINA" - 8/31/75 (0000Z - 2400Z)



LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 12.6N | 106.4W |
| 0600Z | 13.2 | 107.2 |
| 1200Z | 14.0 | 108.1 |
| 1800Z | 14.8 | 108.9 |
| 2400Z | 15.9 | 109.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2023 | - 57.44 | 23 10 25 | 0058Z | 004810 | 010136 | 808 | 332 |
| 2025 | - 106.93 | 02 33 44 | 0236Z | No | | | |
| 2031 | + 100.03 | 12 44 26 | 1344Z | No | | | |
| 2032 | + 74.71 | 14 26 13 | 1512Z | No | | | |
| | | | | | | | |
| | | | | | | | |



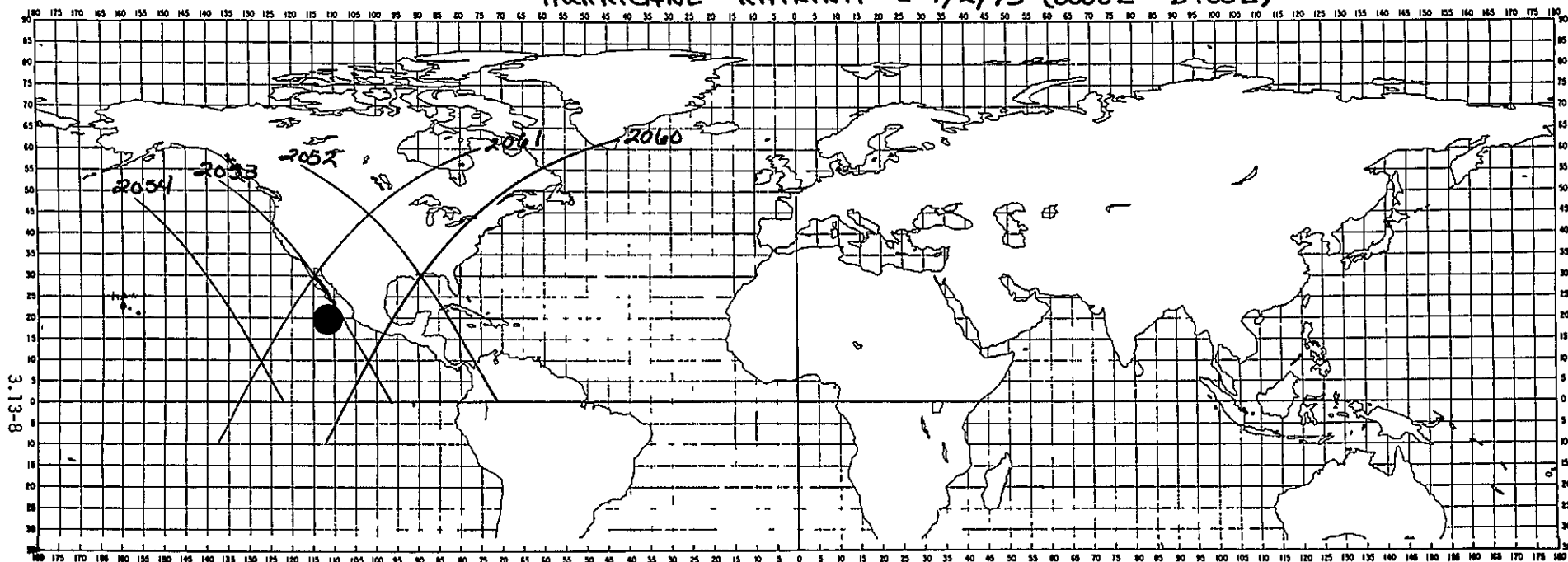
LOCATION

HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 15.9N | 109.5W |
| 0600Z | 16.7 | 109.9 |
| 1200Z | 17.5 | 110.2 |
| 1800Z | 18.0 | 110.6 |
| 2400Z | 18.5 | 111.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2038 | - 77.23 | 00 36.55 | 0045Z | No | | | |
| 2039 | - 102.55 | 02 18.43 | 0223Z | No | | | |
| 2046 | + 80.18 | 14 11 12 | 1457Z | No | | | |
| 2047 | + 54.85 | 15 52.59 | 1636Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "KATRINA" - 9/2/75 (0000Z - 2400Z)

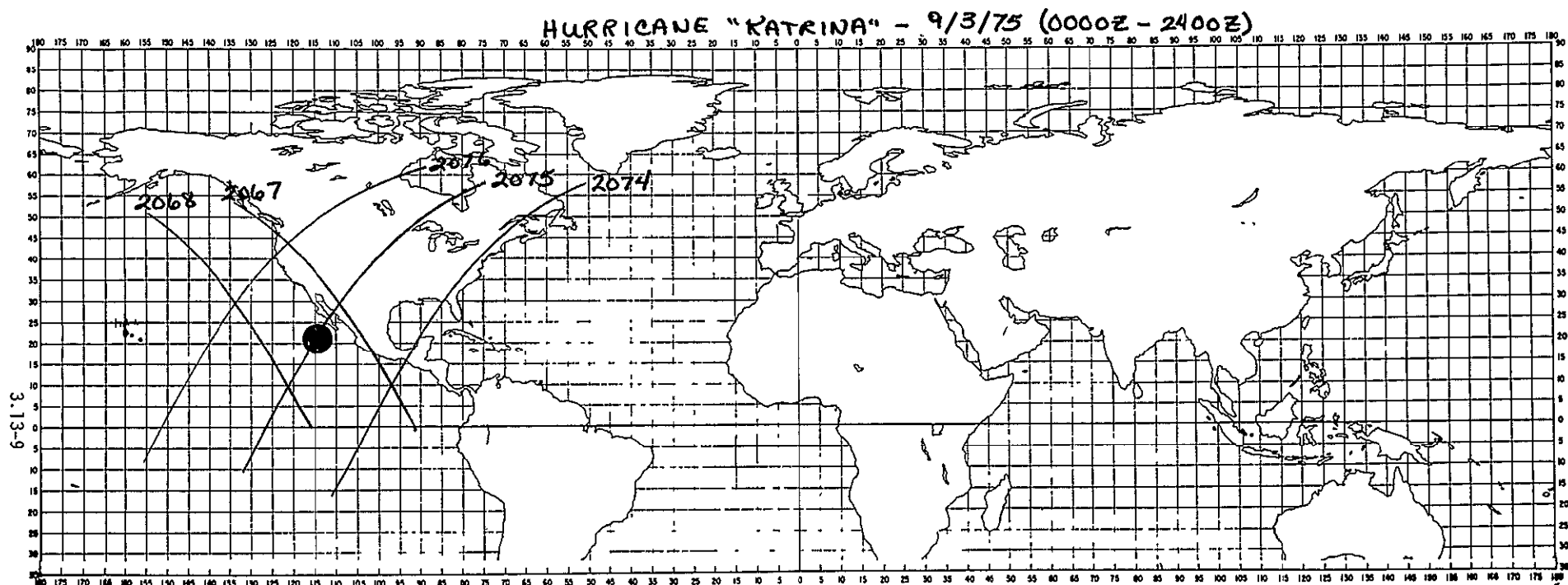


LOCATION

HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 18.5N | 111.0W |
| 0600Z | 19.0 | 111.5 |
| 1200Z | 19.4 | 111.8 |
| 1800Z | 19.7 | 112.1 |
| 2400Z | 19.9 | 112.5 |

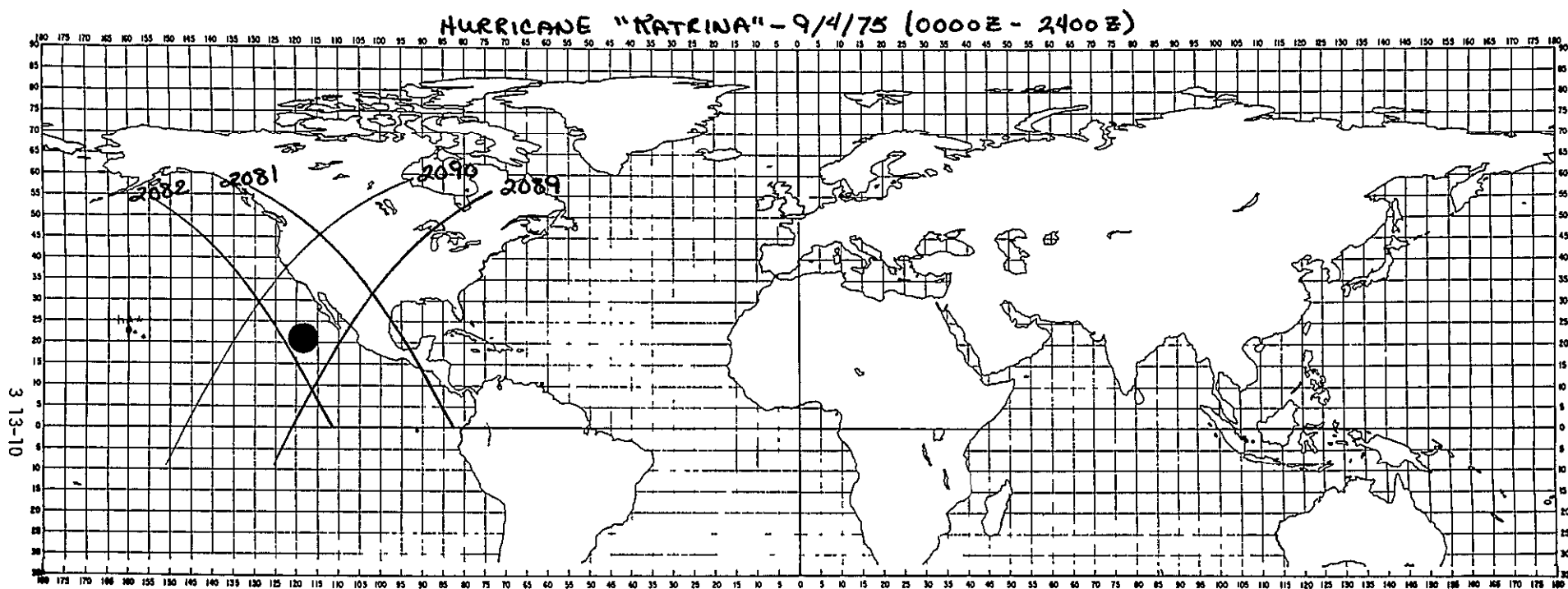
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2052 | - 71.75 | 00 21 54 | 0032Z | No | | | |
| 2053 | - 97.08 | 02 03 41 | 0210Z | No | | | |
| 2054 | -122.40 | 03 45 23 | 0348Z | No | | | |
| 2060 | + 85.60 | 13 56 38 | 1442Z | No | | | |
| 2061 | +60.27 | 15 38 15 | 1622Z | No | | | |



LOCATION
HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 19.9N | 112.5W |
| 0600Z | 20.2 | 113.0 |
| 1200Z | 20.4 | 113.7 |
| 1800Z | 20.7 | 114.5 |
| 2400Z | 20.9 | 115.2 |

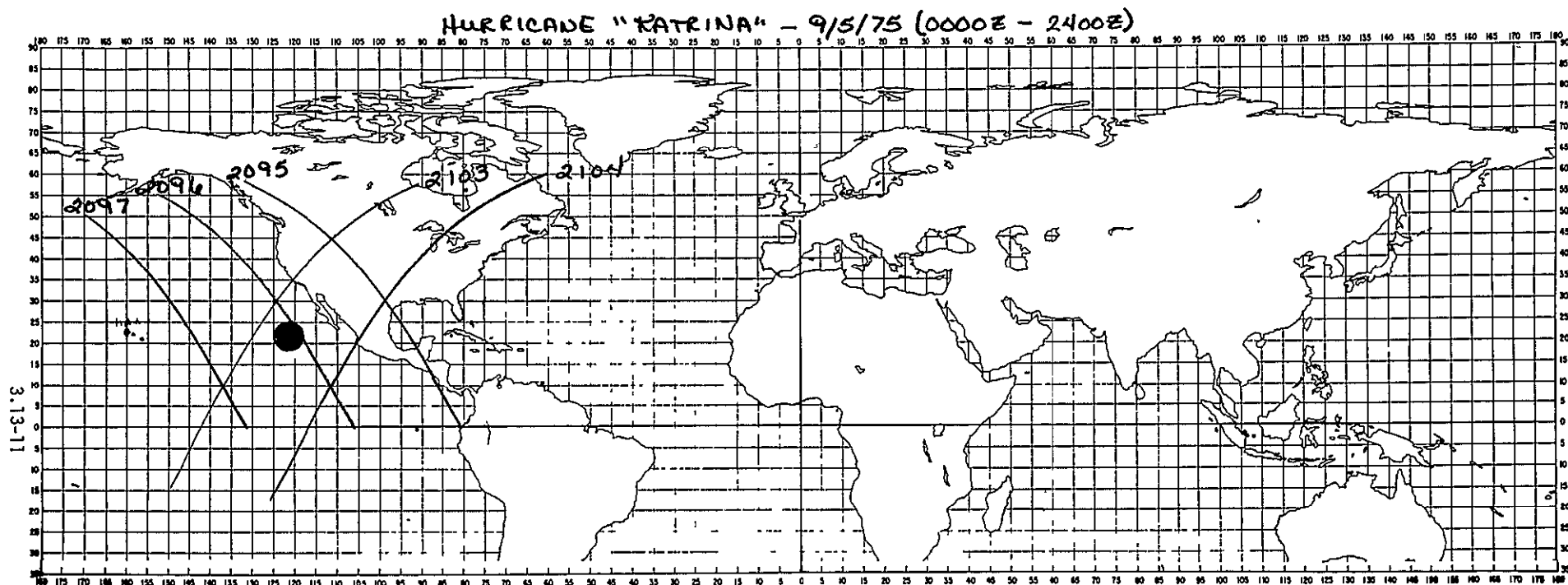
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|---------|---------|------|--------|
| 2067 | - 91.66 | 01 48 57 | 0157Z | No | | | |
| 2068 | -116.99 | 03 30 40 | 0334Z | No | | | |
| 2074 | + 91.07 | 13 41 27 | 1428Z | No | | | |
| 2075 | + 65.75 | 15 23 14 | 1607Z | No | | | |
| 2076 | + 40.43 | 17 05 01 | 1745Z | 1742.31 | 1747.58 | 802 | 567 |



LOCATION
HURRICANE

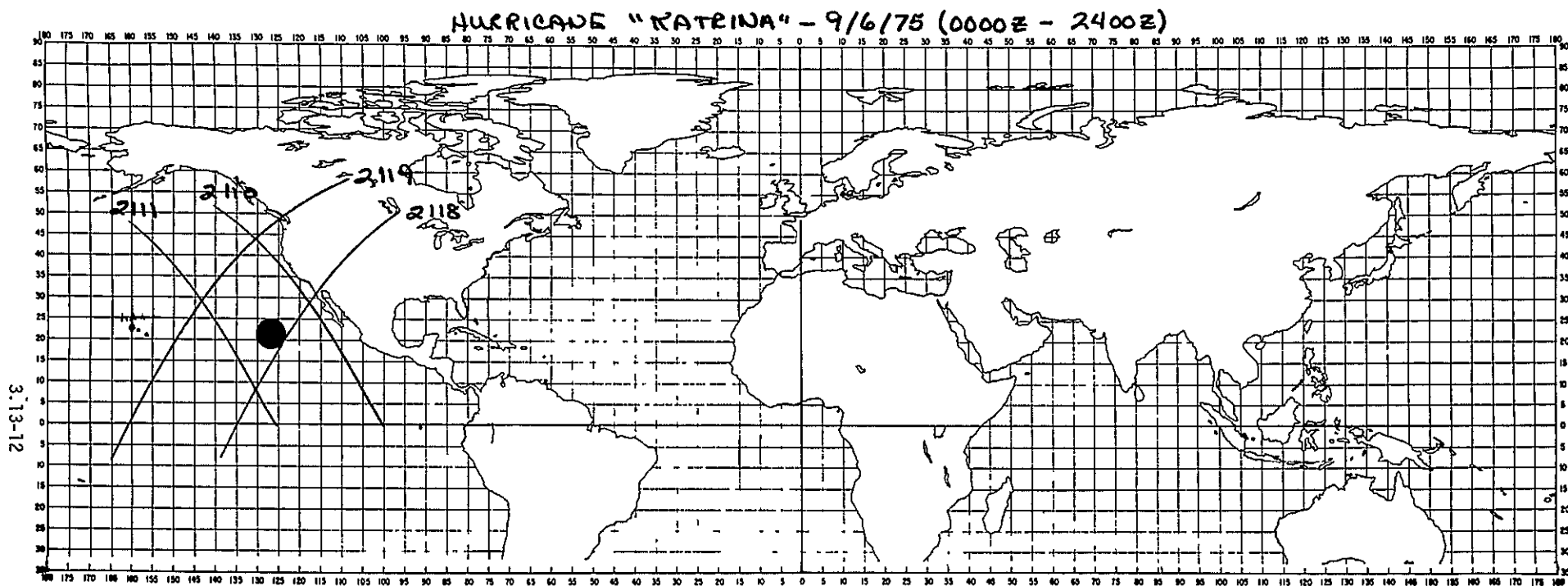
| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.9N | 115.2W |
| 0600Z | 21.1 | 116.0 |
| 1200Z | 21.3 | 117.0 |
| 1800Z | 21.6 | 118.0 |
| 2400Z | 21.7 | 119.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2081 | - 86.19 | 01 33 57 | 0144Z | No | | | |
| 2082 | - 111.52 | 03 15 44 | 0321Z | No | | | |
| 2089 | + 71.22 | 15 08 13 | 1554Z | No | | | |
| 2090 | + 45.90 | 16 50 01 | 1732Z | 172853 | 173349 | 802 | 579 |
| | | | | | | | |



LOCATION
HURRICANE/TROPICAL STORM (1200Z)

| TIME | LATITUDE | LONGITUDE | ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|----------|-----------|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 0000Z | 21.7N | 119.0W | 2095 | - 80.72 | 01 18 56 | 0129Z | No | | | |
| 0600Z | 21.8 | 120.0 | 2096 | -106.04 | 03 00 43 | 0308Z | No | | | |
| 1200Z | 21.8 | 121.1 | 2097 | -131.36 | 04 42 30 | 0446Z | No | | | |
| 1800Z | 21.8 | 122.3 | 2103 | + 76.70 | 14 53 19 | 1539Z | No | | | |
| 2400Z | 21.7 | 123.5 | 2104 | + 51.37 | 16 35 00 | 1718Z | No | | | |

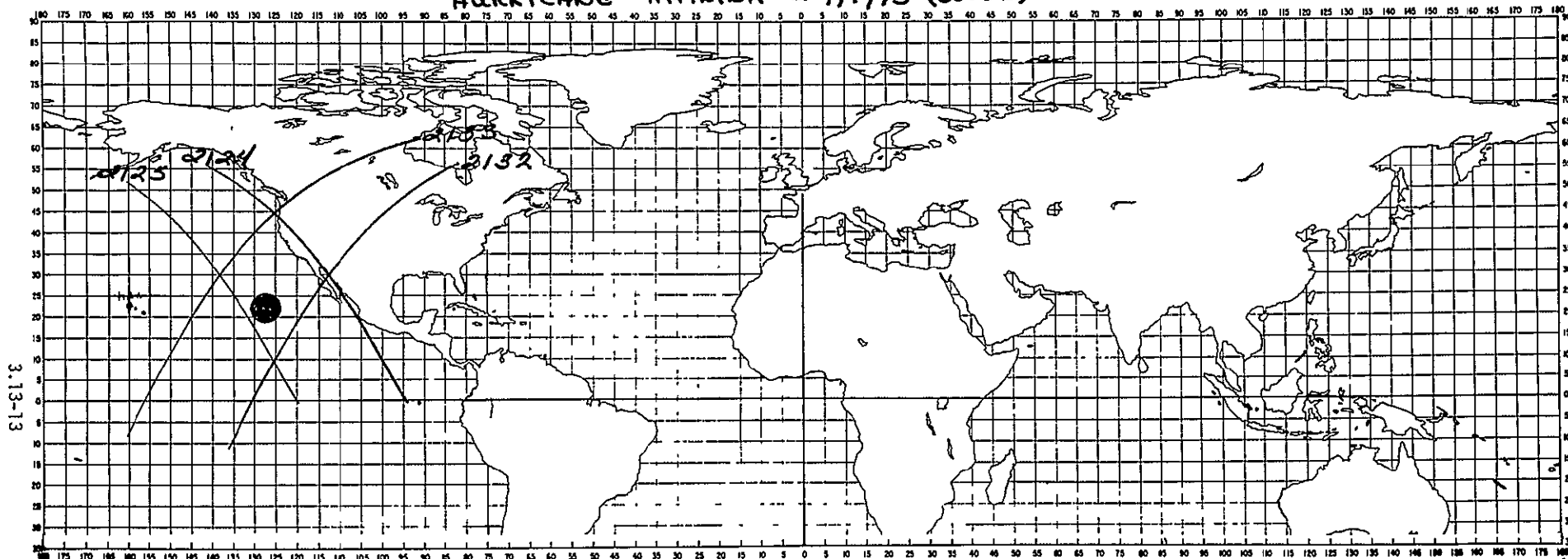


LOCATION
TROPICAL STORM/TROPICAL DEPRESSION (1200Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 21.7N | 123.5W |
| 0600Z | 21.6 | 125.0 |
| 1200Z | 21.6 | 126.3 |
| 1800Z | 21.6 | 127.6 |
| 2400Z | 21.6 | 128.9 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2110 | -100.56 | 02 45 42 | 0254Z | No | | | |
| 2111 | -123.89 | 04 27 29 | 0432Z | No | | | |
| 2118 | + 86.85 | 16 19 59 | 1705Z | No | | | |
| 2119 | + 31.53 | 18 01 46 | 1843Z | No | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "KATRINA" - 9/7/75 (0000Z)



LOCATION

TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 21.6N | 128.9W |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

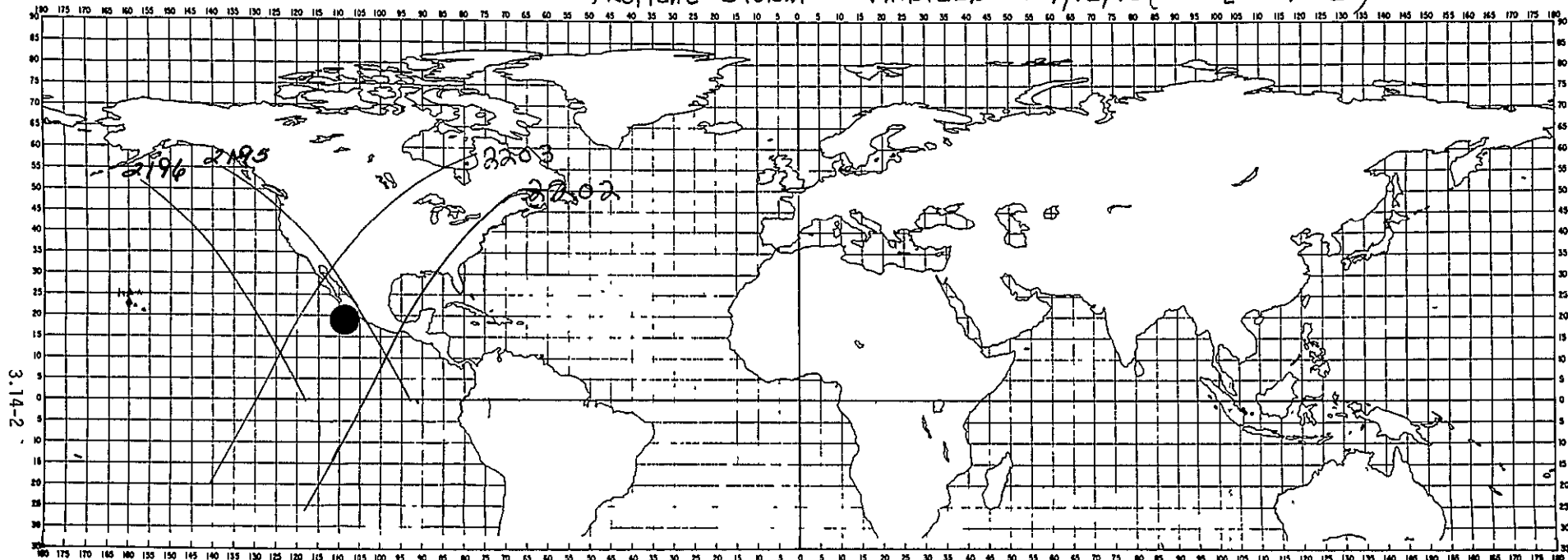
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2124 | - 95.09 | 02 30 41 | 0240Z | No | | | |
| 2125 | -120.42 | 04 12 29 | 0418Z | No | | | |
| 2132 | + 62.32 | 16 04 58 | 1650Z | No | | | |
| 2133 | +37.00 | 17 46 46 | 1827Z | No | | | |
| | | | | | | | |
| | | | | | | | |

STORM: TROPICAL CYCLONE THIRTEEN

DATE: SEPT 12 - SEPT 16, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 9/12 | 0000Z | 19.5N | 109.5W | | 25 | Tropical Depression |
| | 0600Z | 19.5 | 109.5 | | 25 | |
| | 1200Z | 19.5 | 109.5 | | 25 | |
| | 1800Z | 19.5 | 109.5 | | 25 | |
| 9/13 | 0000Z | 19.5N | 109.5W | | 30 | Tropical Depression |
| | 0600Z | 19.5 | 109.5 | | 30 | |
| | 1200Z | 19.5 | 109.5 | | 30 | |
| | 1800Z | 19.5 | 109.5 | | 30 | |
| 9/14 | 0000Z | 19.5N | 109.5W | | 30 | Tropical Depression |
| | 0600Z | 19.5 | 109.5 | | 30 | |
| | 1200Z | 20.0 | 109.5 | | 30 | |
| | 1800Z | 21.0 | 110.2 | | 25 | |
| 9/15 | 0000Z | 21.6N | 111.6W | | 25 | Tropical Depression |
| | 0600Z | 22.0 | 113.0 | | 25 | |
| | 1200Z | 22.3 | 113.8 | | 25 | |
| | 1800Z | 23.0 | 114.2 | | 25 | |
| 9/16 | 0000Z | 23.3N | 115.2W | | 25 | Tropical Depression |
| | 0600Z | ---- | ---- | | -- | |

TROPICAL STORM "THIRTEEN" - 9/12/75 (0000Z -2400Z)



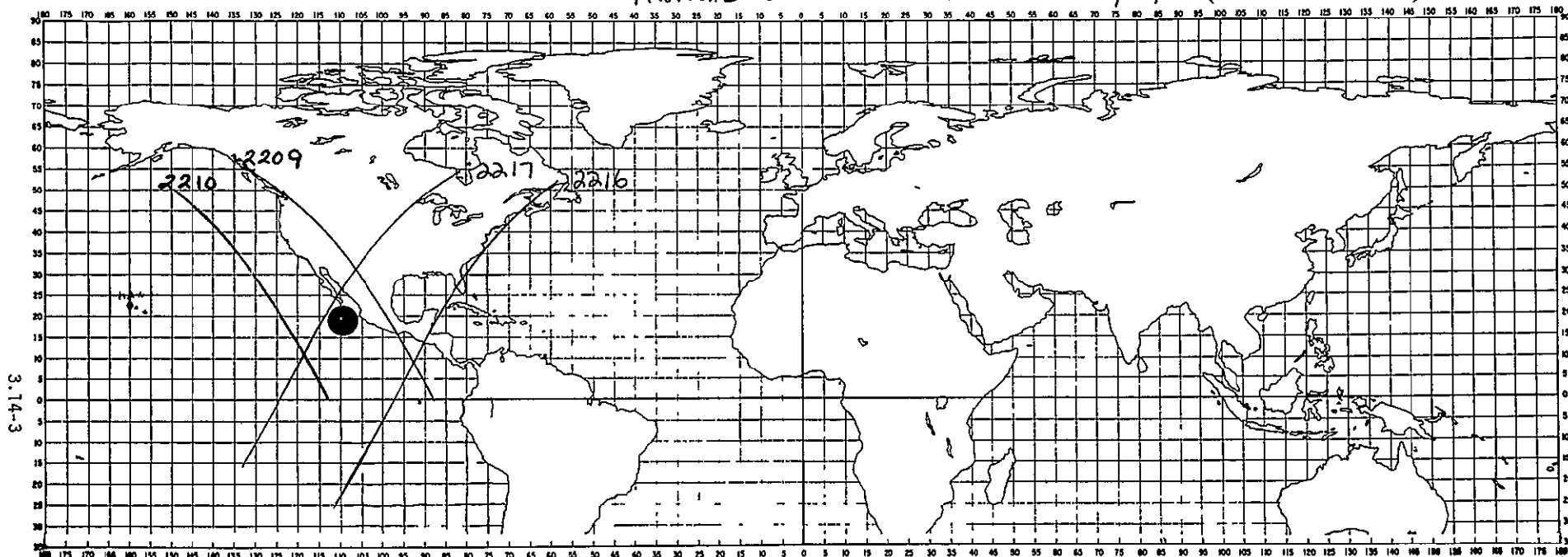
LOCATION

TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 19.5N | 109.5W |
| 0600Z | 19.5 | 109.5 |
| 1200Z | 19.5 | 109.5 |
| 1800Z | 19.5 | 109.5 |
| 2400Z | 19.5 | 109.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2195 | -93.04 | 02 57 25 | 0344Z | No | | | |
| 2196 | -118.37 | 04 38 48 | 0523Z | No | | | |
| 2202 | +89.69 | 14 49 55 | 1537Z | No | | | |
| 2203 | +64.37 | 16 31 42 | 1713Z | No | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL CYCLONE "THIRTEEN" - 9/13/75 (0000Z - 2400Z)



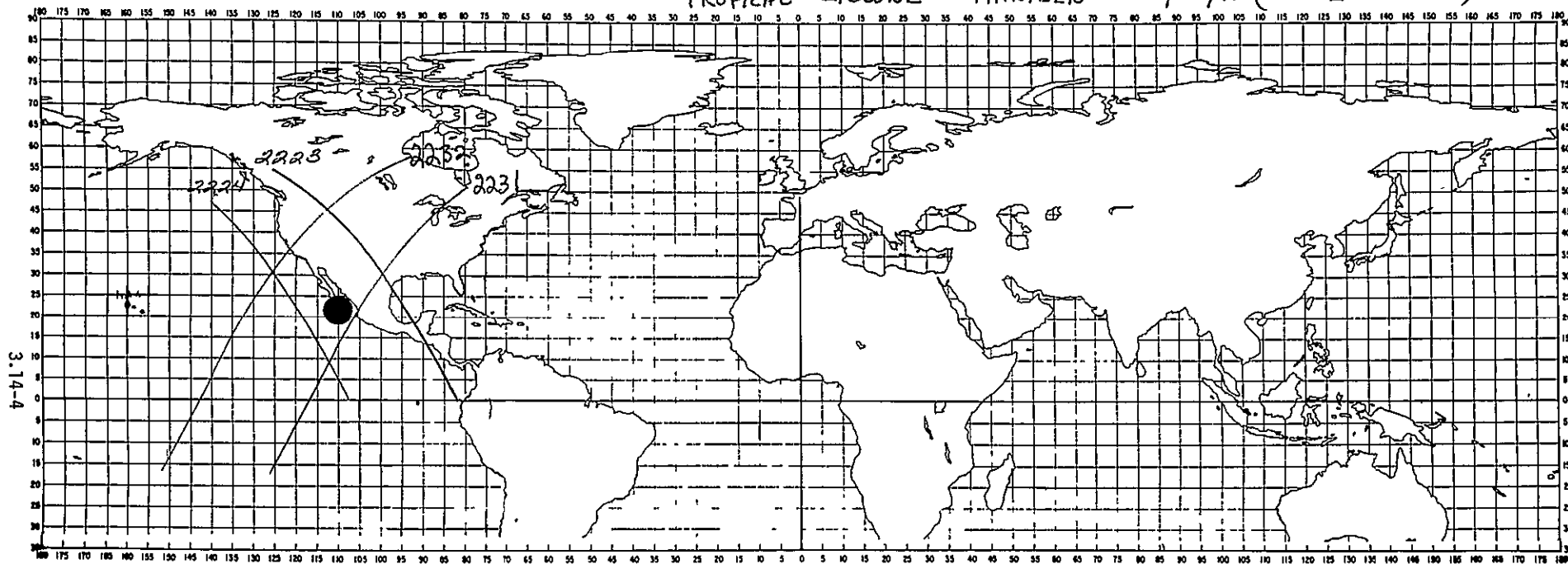
3.14-3

LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 19.5 N | 109.5 W |
| 0600Z | 19.5 | 109.5 |
| 1200Z | 19.5 | 109.5 |
| 1800Z | 19.5 | 109.5 |
| 2400Z | 19.5 | 109.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2209 | -87.57 | 02 42 24 | 0250Z | NO | | | |
| 2210 | -112.80 | 04 24 11 | 0428Z | NO | | | |
| 2216 | +95.17 | 14 34 54 | 1523Z | NO | | | |
| 2217 | +69.64 | 16 16 41 | 1700Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL CYCLONE "THIRTEEN" - 9/14/75 (0000Z - 2400Z)



LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 19.5N | 109.5W |
| 0600Z | 19.5 | 109.5 |
| 1200Z | 20.0 | 109.5 |
| 1800Z | 21.0 | 110.2 |
| 2400Z | 23.3 | 115.2 |

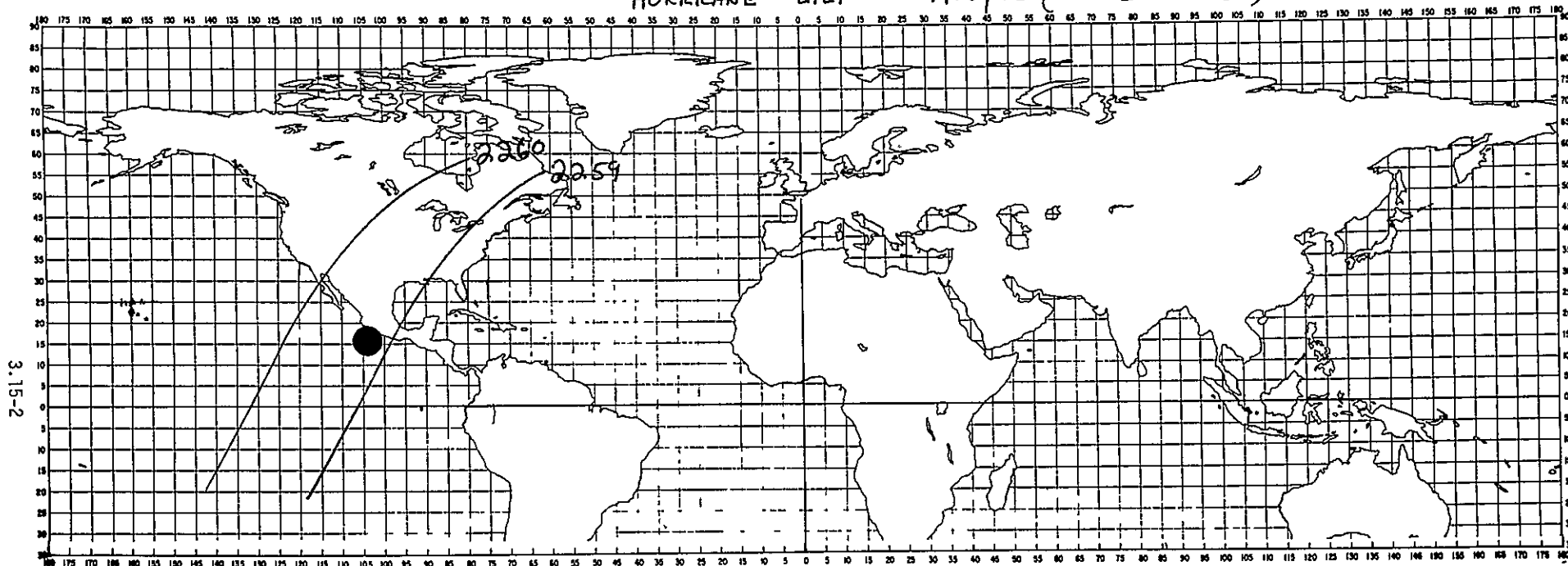
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2223 | -82.09 | 02 27 23 | 0239Z | NO | | | |
| 2224 | -107.42 | 04 09 10 | 0414Z | NO | | | |
| 2231 | +75.32 | 16 01 40 | 1646Z | NO | | | |
| 2232 | +50.00 | 17 43 27 | 1825Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

STORM: HURRICANE LILY

DATE: SEPT 16 - SEPT 21, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------------------------|
| | | Latitude | Longitude | | | |
| 9/16 | 1200Z | 16.3N | 104.2W | | 30 | Tropical Depression Tropical Storm |
| | 1800Z | 16.4 | 105.0 | | 40 | |
| 9/17 | 0000Z | 16.5N | 105.6W | | 40 | Tropical Storm |
| | 0600Z | 16.5 | 106.0 | | 40 | |
| | 1200Z | 16.6 | 106.3 | | 40 | |
| | 1800Z | 16.8 | 106.6 | | 45 | |
| 9/18 | 0000Z | 17.0N | 107.2W | | 45 | Tropical Storm |
| | 0600Z | 17.4 | 108.3 | | 45 | |
| | 1200Z | 17.8 | 109.3 | | 55 | Hurricane |
| | 1800Z | 18.2 | 110.3 | | 65 | |
| 9/19 | 0000Z | 18.6N | 111.6W | | 75 | Hurricane |
| | 0600Z | 18.8 | 112.7 | | 70 | |
| | 1200Z | 19.2 | 114.2 | | 75 | |
| | 1800Z | 19.6 | 115.5 | | 75 | |
| 9/20 | 0000Z | 20.0N | 117.0W | | 70 | Hurricane |
| | 0600Z | 20.3 | 118.3 | | 70 | |
| | 1200Z | 21.0 | 119.9 | | 70 | |
| | 1800Z | 21.4 | 121.1 | | 60 | |
| 9/21 | 0000Z | 21.9N | 122.6W | | 55 | Hurricane |
| | 0600Z | 22.6 | 123.8 | | 50 | |
| | 1200Z | 23.0 | 125.0 | | 40 | |
| | 1800Z | 22.5 | 126.0 | | 25 | |

HURRICANE "LILY" - 9/16/75 (1200Z - 2400Z)



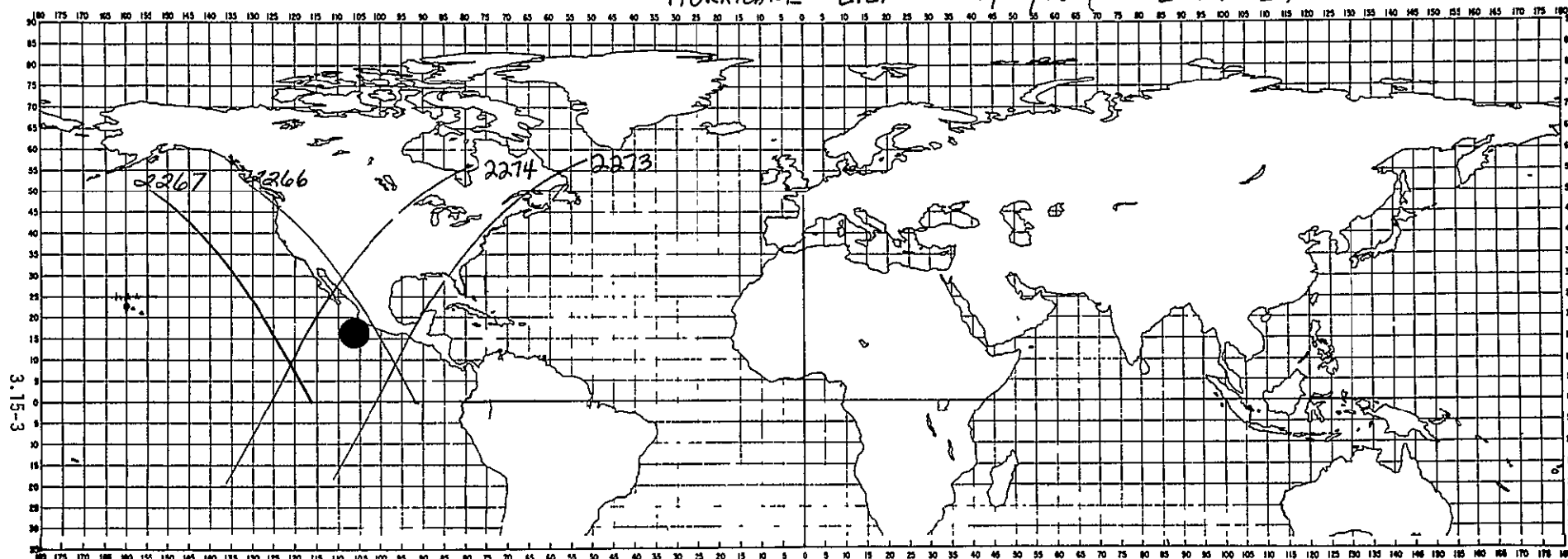
LOCATION

TROPICAL DEPRESSION/TROPICAL STORM (1800Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1200Z | 16.3 N | 104.2 W |
| 1800Z | 16.4 | 105.0 |
| 2400Z | 16.5 | 105.6 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2259 | + 86.27 | 15 31 39 | 1619 Z | NO | | | |
| 2260 | + 60.94 | 17 13 24 | 1800Z | NO | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

HORRICANE "LILY" - 9/17/75 (0000Z - 2400Z)

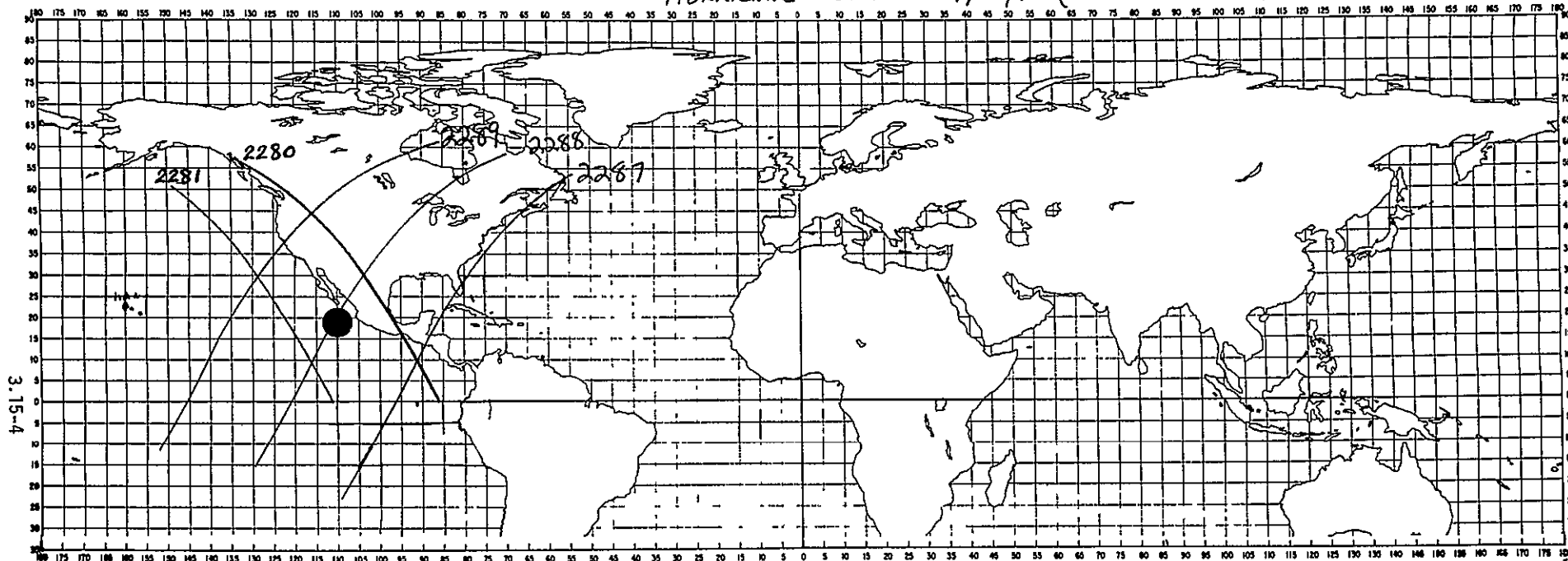


LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 16.5N | 105.6W |
| 0600Z | 16.5 | 106.0 |
| 1200Z | 16.6 | 106.3 |
| 1800Z | 16.8 | 106.6 |
| 2400Z | 17.0 | 107.2 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2266 | -90.99 | 03 24 08 | 0330Z | NO | | | |
| 2267 | -116.32 | 05 05 55 | 0508Z | NO | | | |
| 2273 | +91.74 | 15 16 38 | 1604Z | NO | | | |
| 2274 | +66.42 | 16 58 25 | 1742Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "LILY" - 9/18/75 (0000Z - 2400Z)



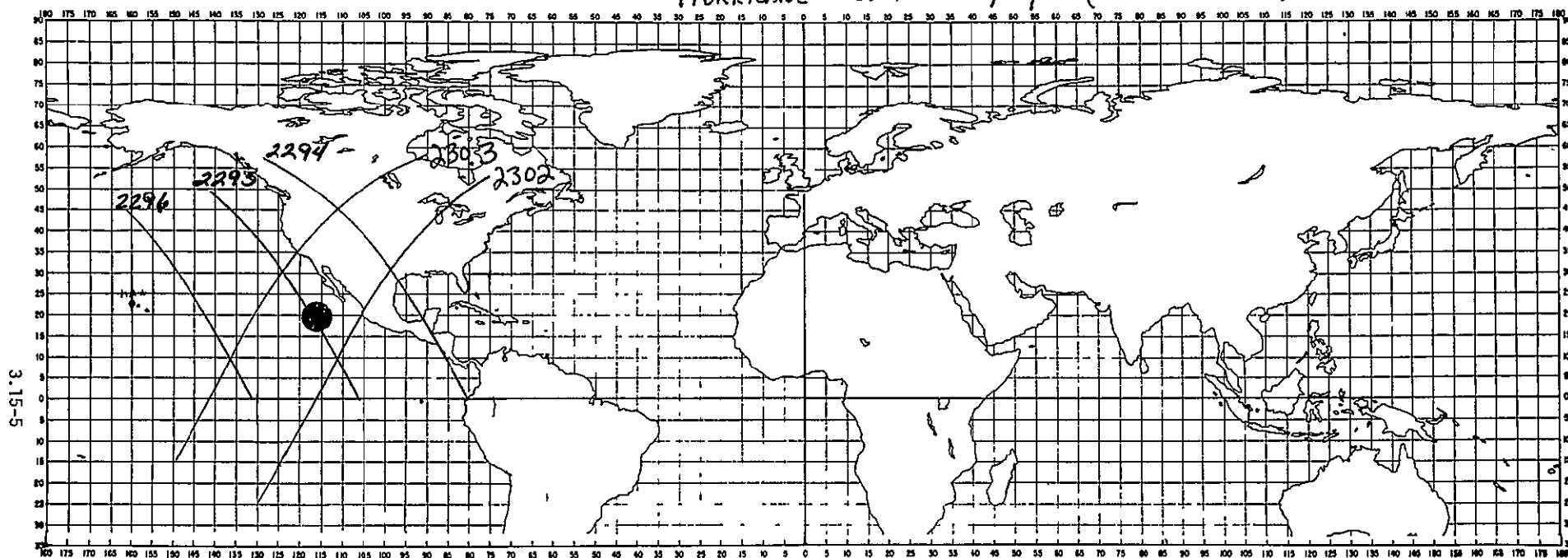
LOCATION

TROPICAL STORM/HURRICANE (1800Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 17.0N | 107.2W |
| 0600Z | 17.4 | 108.3 |
| 1200Z | 17.8 | 109.3 |
| 1800Z | 18.2 | 110.3 |
| 2400Z | 18.6 | 111.6 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2280 | -85.52 | 03 09 07 | 0315Z | NO | | | |
| 2281 | -110.85 | 04 50 54 | 0454Z | NO | | | |
| 2287 | +97.22 | 15 01 37 | 1550Z | 154600 | 153422 | 802 | 522 |
| 2288 | +71.89 | 16 43 24 | 1728Z | NO | | | |
| 2289 | +46.57 | 18 25 11 | 1907Z | NO | | | |

HURRICANE "LILY" - 9/19/75 (0000Z - 2400Z)

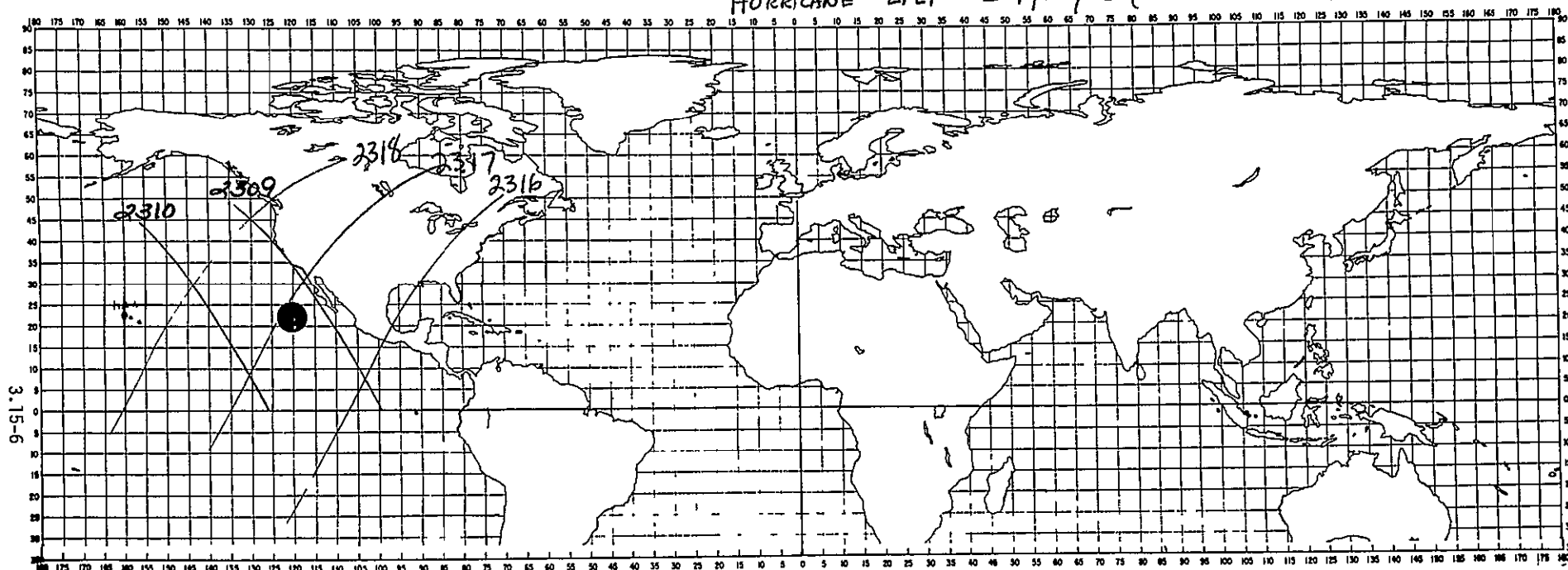


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 18.6N | 111.6W |
| 0600Z | 18.8 | 112.7 |
| 1200Z | 19.2 | 114.2 |
| 1800Z | 19.6 | 115.5 |
| 2400Z | 20.0 | 117.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2294 | -80.05 | 02 54 07 | 0304Z | NO | | | |
| 2295 | -105.37 | 04 35 54 | 0440Z | NO | | | |
| 2296 | -130.69 | 06 17 11 | 0620Z | NO | | | |
| 2302 | +77.97 | 16 28 43 | 1715Z | NO | | | |
| 2303 | +52.04 | 18 10 11 | 1853Z | NO | | | |

HURRICANE "LILY" - 9/20/75 (0000Z - 2400Z)

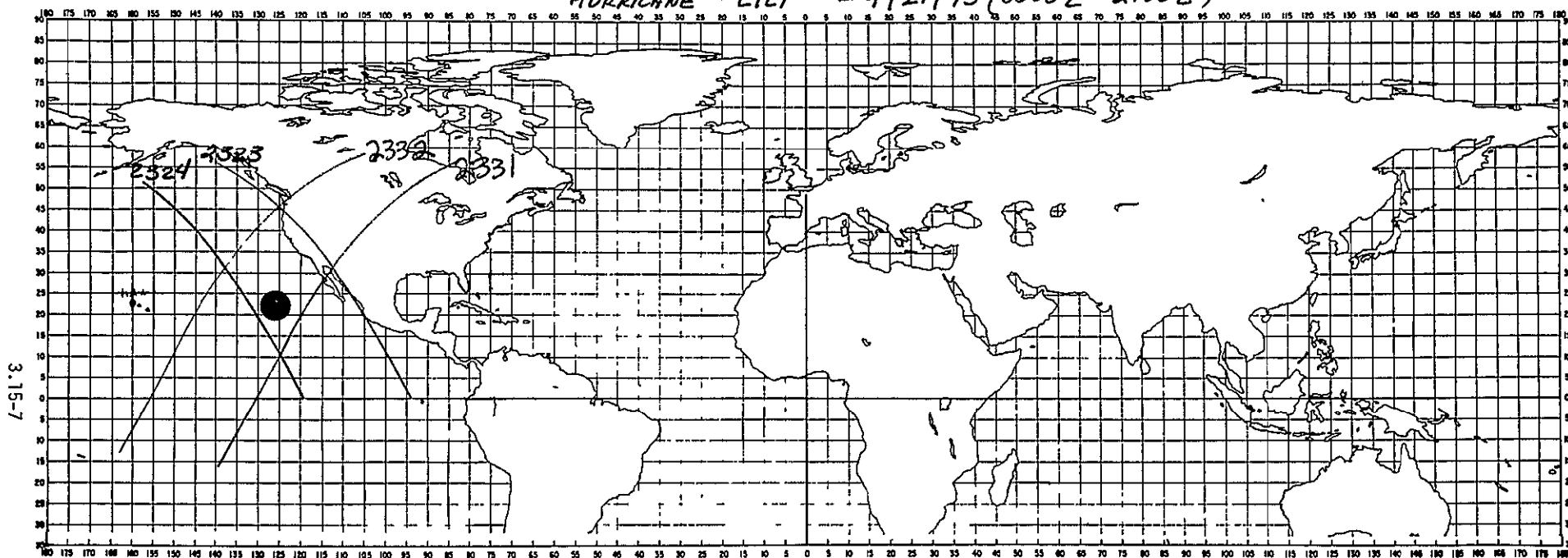


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 20.0N | 117.0W |
| 0600Z | 20.3 | 118.3 |
| 1200Z | 21.0 | 119.9 |
| 1800Z | 21.4 | 121.1 |
| 2400Z | 21.9 | 122.6 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2309 | -99.90 | 04 20 53 | 0427Z | NO | | | |
| 2310 | -125.22 | 06 02 40 | 0605Z | NO | | | |
| 2316 | +85.82 | 16 13 23 | 1700Z | NO | | | |
| 2317 | +57.52 | 17 55 10 | 1838Z | NO | | | |
| 2318 | +32.19 | 19 36 57 | 2017Z | 201206 | 205025 | 802 | 549 |

HURRICANE "LILY" - 9/21/75 (0000Z - 2400Z)

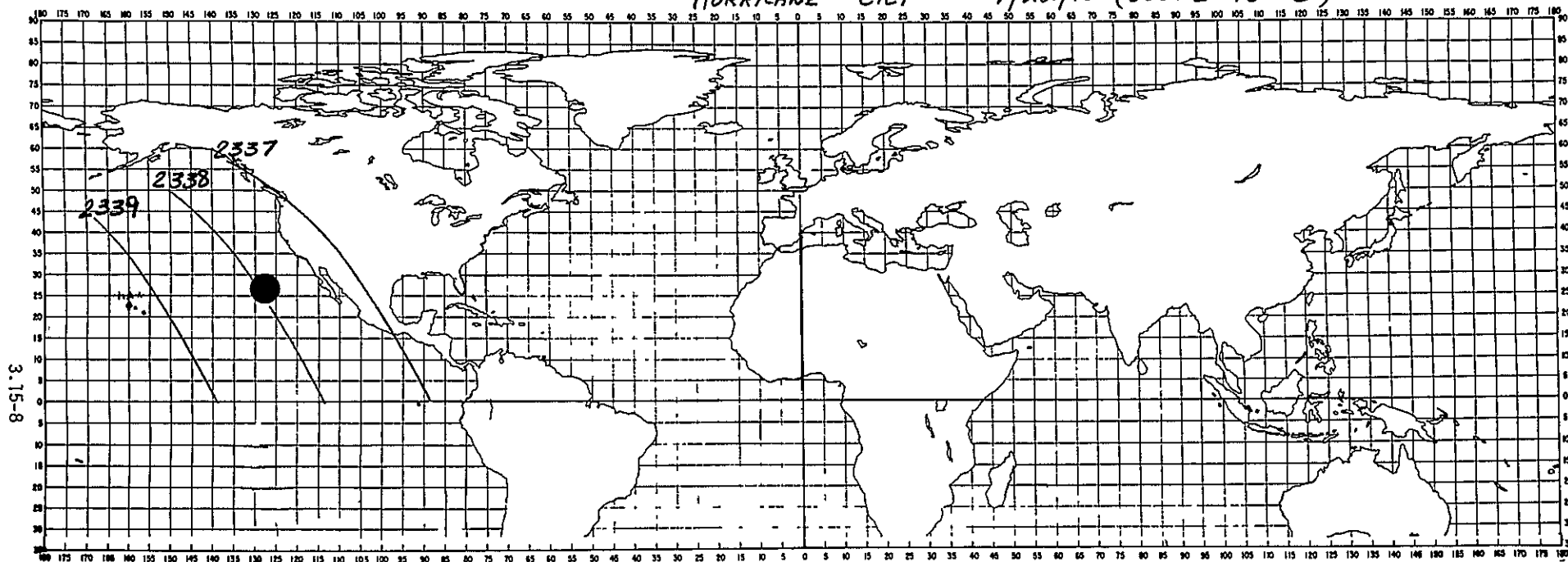


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 21.9N | 122.6W |
| 0600Z | 22.6 | 123.8 |
| 1200Z | 23.0 | 125.0 |
| 1800Z | 22.5 | 126.0 |
| 00Z | 26.5 | 127.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2323 | -94.92 | 04 05 52 | 0415Z | NO | | | |
| 2324 | -119.74 | 05 47 39 | 0553Z | NO | | | |
| 2331 | +62.99 | 17 40 09 | 1825Z | NO | | | |
| 2332 | +37.67 | 19 21 56 | 2000Z | NO | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "LILY" - 9/22/75 (0000Z-1200Z)



LOCATION 24-Hour Forecast

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 26.5N | 127.5W |
| 0600Z | 26.5 | 128.3 |
| 1200 | 27.0 | 128.0 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

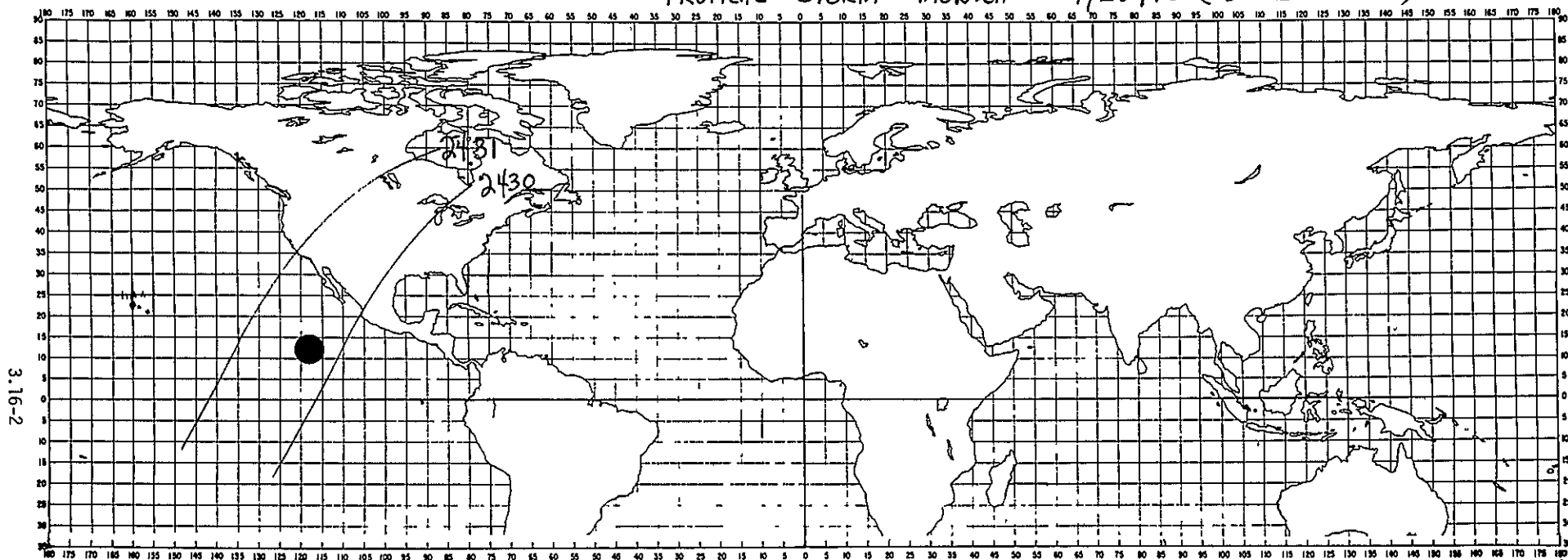
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2337 | -88.95 | 03 50 51 | 0402Z | No | | | |
| 2338 | -114.27 | 05 32 38 | 0540Z | No | | | |
| 2339 | -139.60 | 07 14 26 | 0717Z | No | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

STORM: TROPICAL STORM MONICA

DATE: SEPT 28 - OCT 2, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------------------------|
| | | Latitude | Longitude | | | |
| 9/28 | 1200Z | 11.5N | 117.8W | | 25 | Tropical Depression |
| | 1800Z | 11.5 | 118.9 | | 30 | |
| 9/29 | 0000Z | 11.7N | 120.0W | | 35 | Tropical Storm |
| | 0600Z | 11.8 | 121.1 | | 35 | |
| | 1200Z | 12.0 | 122.3 | | 35 | |
| | 1800Z | 12.1 | 123.0 | | 35 | |
| 9/30 | 0000Z | 12.3N | 123.7W | | 35 | Tropical Storm |
| | 0600Z | 12.4 | 124.2 | | 35 | |
| | 1200Z | 12.6 | 124.7 | | 40 | |
| | 1800Z | 13.0 | 125.3 | | 45 | |
| 10/1 | 0000Z | 13.3N | 126.0W | | 35 | Tropical Storm Tropical Depression |
| | 0600Z | 13.5 | 126.5 | | 30 | |
| | 1200Z | 14.0 | 127.0 | | 30 | |
| | 1800Z | 14.5 | 127.1 | | 25 | |
| 10/2 | 0000Z | 15.0N | 127.3W | | 25 | Tropical Depression |

TROPICAL STORM "MONICA" - 9/28/75 (1200Z - 2400Z)



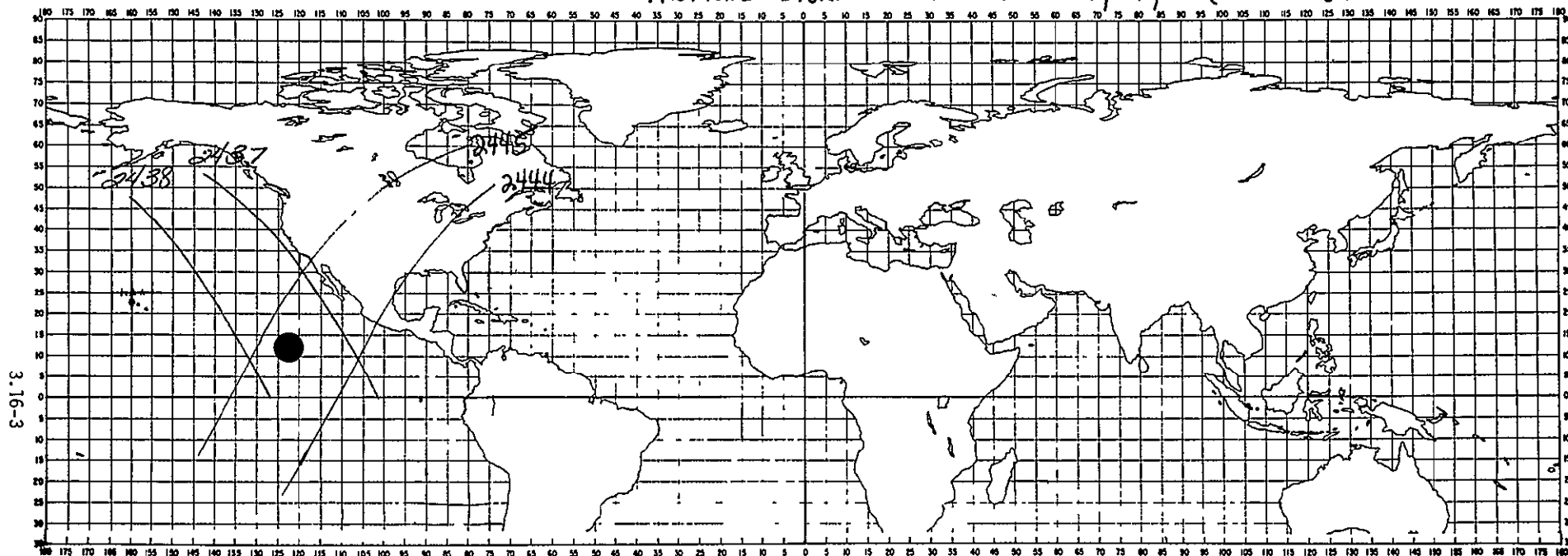
LOCATION

TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1200Z | 11.5N | 117.8W |
| 1800Z | 11.5 | 118.9 |
| 2400Z | 11.7 | 120.0 |
| | | |
| | | |
| | | |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2430 | +75.99 | 17 36 51 | 1825 Z | Do | | | |
| 2431 | +50.66 | 19 18 35 | 2004 Z | 195837 | 200315 | 802 | 112 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "MONICA" - 9/29/75 (0000Z - 2400Z)



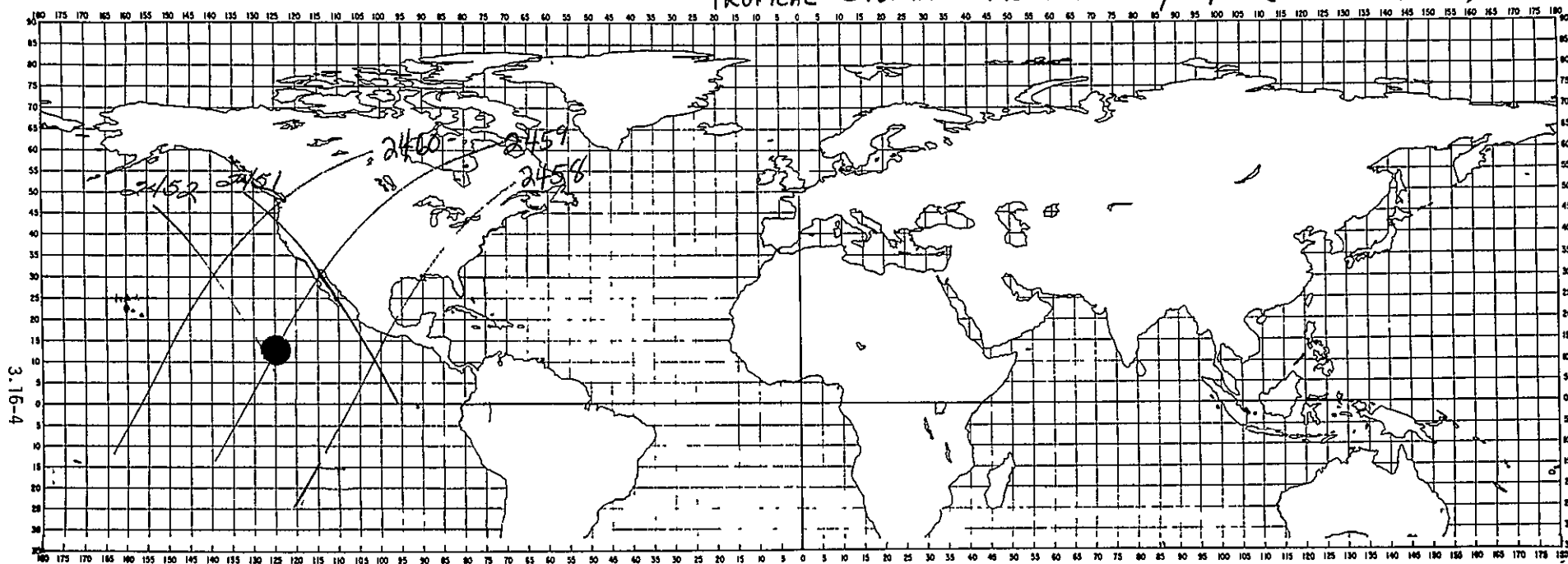
3.16-3

LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 11.7N | 120.0W |
| 0600Z | 11.8 | 121.1 |
| 1200Z | 12.0 | 122.3 |
| 1800Z | 12.1 | 123.0 |
| 2400Z | 12.3 | 123.7 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2437 | -101.27 | 05 29 20 | 0534Z | No | | | |
| 2438 | -126.80 | 07 11 07 | 0712Z | No | | | |
| 2444 | +81.46 | 17 21 50 | 1812Z | No | | | |
| 2445 | +56.14 | 19 03 57 | 1950Z | No | | | |

TROPICAL STORM "MONICA" - 9/30/75 (0000Z-2400Z)



3.16-4

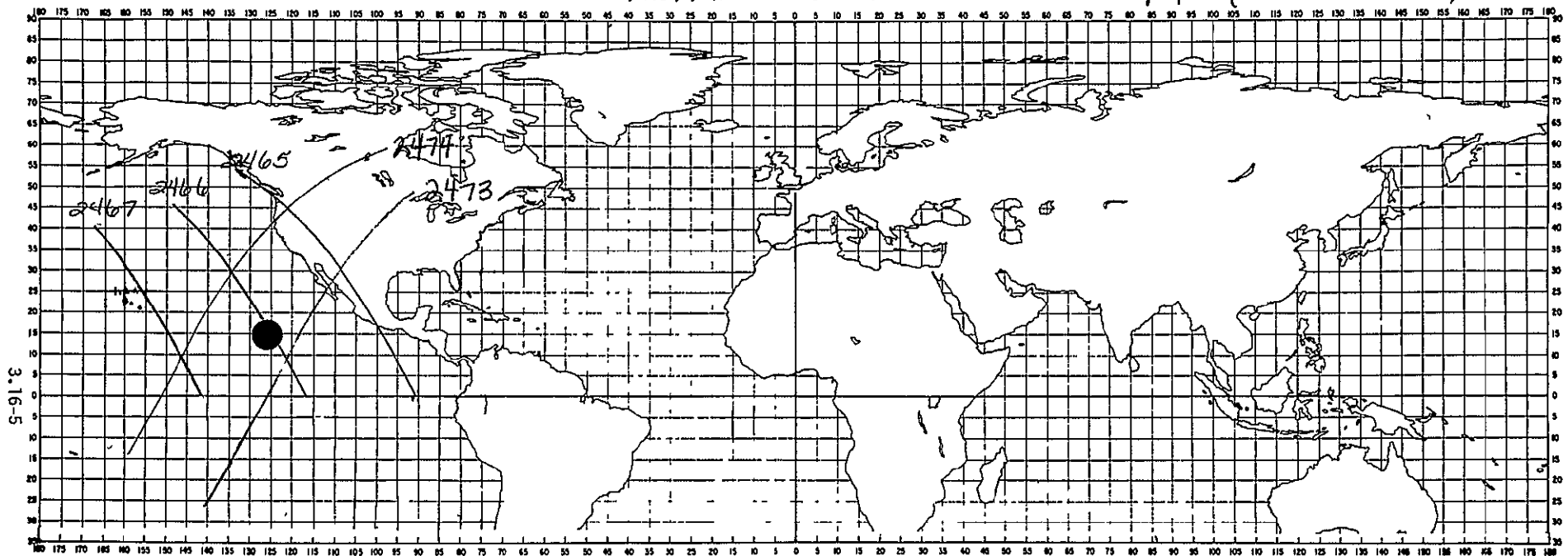
LOCATION

TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 12.3N | 123.7W |
| 0600Z | 12.4 | 124.2 |
| 1200Z | 12.6 | 124.7 |
| 1800Z | 13.0 | 125.3 |
| 2400Z | 13.3 | 126.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2451 | -95.80 | 05 14 19 | 0521Z | No | | | |
| 2452 | -121.13 | 06 56 07 | 0659Z | No | | | |
| 2458 | +86.94 | 17 06 49 | 1757Z | No | | | |
| 2459 | +61.61 | 18 48 36 | 1936Z | No | | | |
| 2460 | +36.29 | 20 30 23 | 2114Z | No | | | |

TROPICAL STORM "MONICA" - 10/1/75 (0000Z - 2400Z)



LOCATION

TROPICAL STORM/TROPICAL DEPRESSION (0600Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 13.3N | 126.0W |
| 0600Z | 13.5 | 126.5 |
| 1200Z | 14.0 | 127.0 |
| 1800Z | 14.5 | 127.1 |
| 2400Z | 15.0 | 127.3 |

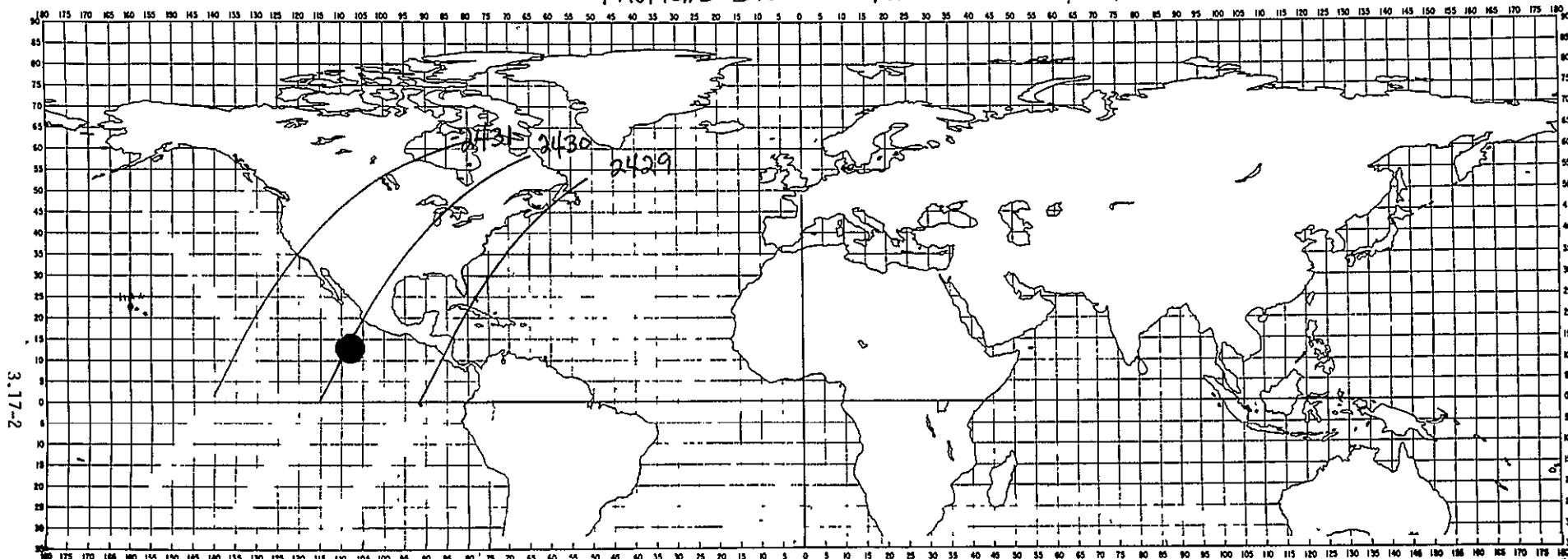
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2465 | -90.32 | 04 59 19 | 0507Z | No | | | |
| 2466 | -115.65 | 06 41 06 | 0645Z | No | | | |
| 2467 | -140.97 | 08 22 53 | 0824Z | No | | | |
| 2473 | +67.09 | 18 33 35 | 1926Z | No | | | |
| 2474 | +41.76 | 20 15 23 | 2059Z | No | | | |

STORM: TROPICAL STORM NANETTE

DATE: SEPT 28 - OCT 4, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 9/28 | 1200Z | 12.8N | 107.0W | | 25 | Tropical Depression |
| | 1800Z | 12.8 | 107.7 | | 30 | |
| 9/29 | 0000Z | 12.8N | 108.4W | | 30 | Tropical Depression |
| | 0600Z | 12.8 | 108.9 | | 25 | |
| | 1200Z | 12.5 | 109.6 | | 25 | Tropical Storm |
| | 1800Z | 12.7 | 110.0 | | 35 | |
| 9/30 | 0000Z | 12.5N | 110.5W | | 35 | Tropical Storm |
| | 0600Z | 12.3 | 111.0 | | 35 | |
| | 1200Z | 12.6 | 111.8 | | 35 | |
| | 1800Z | 12.7 | 112.3 | | 50 | |
| 10/1 | 0000Z | 12.8N | 113.0W | | 45 | Tropical Storm |
| | 0600Z | 13.2 | 114.2 | | 40 | |
| | 1200Z | 13.0 | 115.4 | | 40 | |
| | 1800Z | 13.1 | 116.4 | | 45 | |
| 10/2 | 0000Z | 13.3N | 117.5W | | 45 | Tropical Storm |
| | 0600Z | 13.8 | 118.8 | | 40 | |
| | 1200Z | 14.2 | 120.0 | | 49 | |
| | 1800Z | 14.5 | 120.8 | | 35 | |
| 10/3 | 0000Z | 14.9N | 121.9W | | 40 | Tropical Storm |
| | 0600Z | 15.0 | 122.5 | | 40 | |
| | 1200Z | 14.9 | 123.2 | | 40 | |
| | 1800Z | 14.6 | 124.0 | | 35 | |
| 10/4 | 0000Z | 14.0N | 125.0W | | 30 | Tropical Depression |

TROPICAL STORM "NANETTE" - 9/28/75 (1200Z - 2400Z)

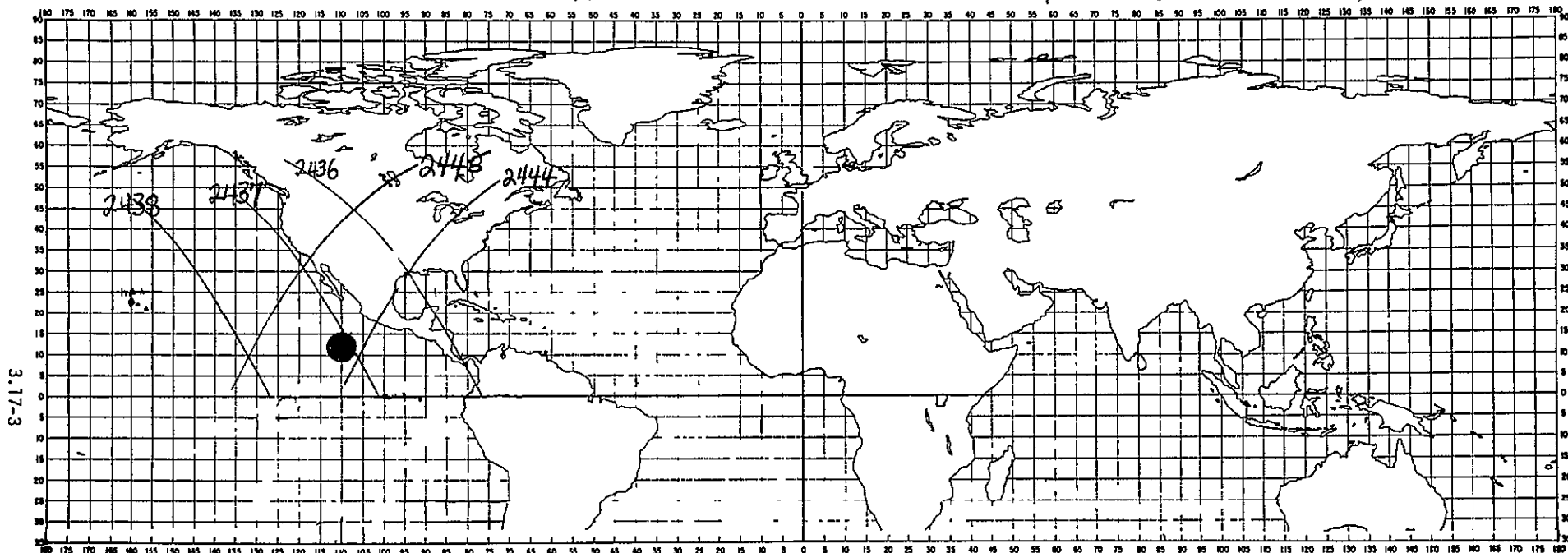


LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1200Z | 12.8N | 107.0W |
| 1800Z | 12.8 | 107.7 |
| 2400Z | 12.8 | 108.4 |
| | | |
| | | |
| | | |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2429 | +101.31 | 15 55 03 Z | 16 45 Z | 163037 | 164217 | 802 | 111 |
| 2430 | +75.99 | 17 36 51 Z | 18 24 Z | No! | | | |
| 2431 | +50.66 | 19 18 35 Z | 20 02 Z | 195837 | 200315 | 802 | 112 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "NANETTE" - 9/29/75 (0000Z - 2400Z)

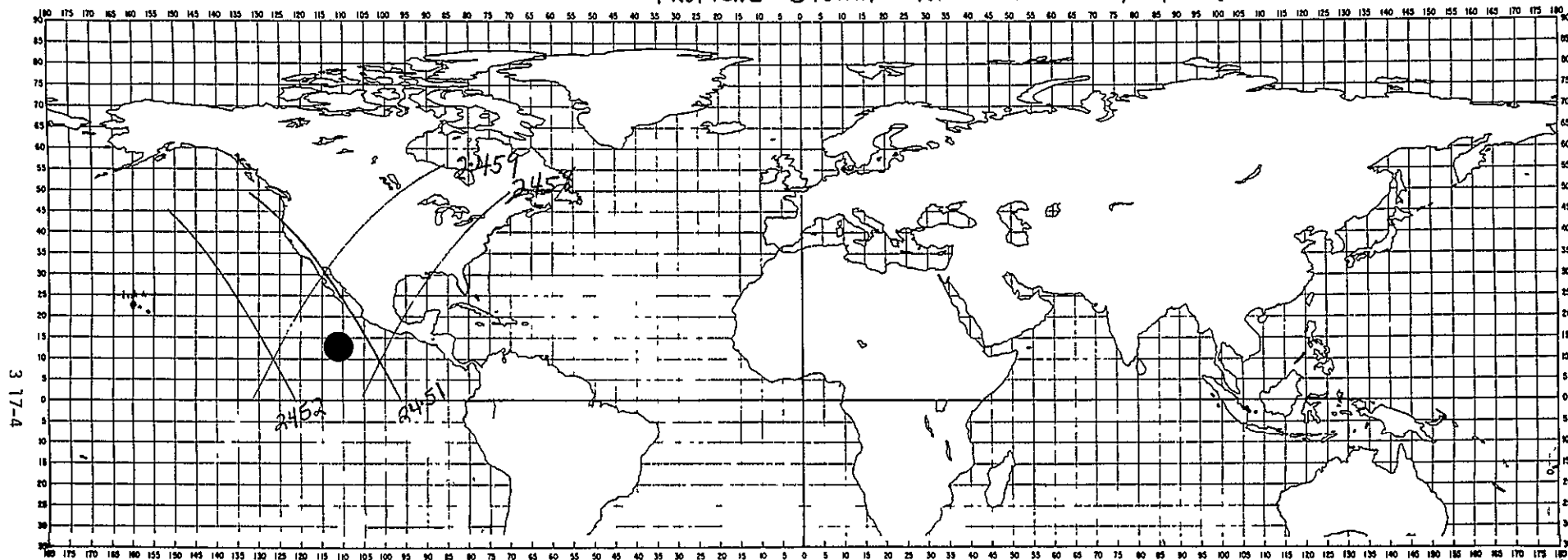


LOCATION TROPICAL DEPRESSION/TROPICAL STORM (1800Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 12.8N | 108.4W |
| 0600Z | 12.8 | 108.9 |
| 1200Z | 12.5 | 109.6 |
| 1800Z | 12.7 | 110.0 |
| 2400Z | 12.5 | 110.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2436 | -75.95 | 03 47 33 Z | 0355 Z | Do | | | |
| 2437 | -101.27 | 05 29 20 Z | 0533 Z | Do | | | |
| 2438 | -126.60 | 07 11 07 Z | 0712 Z | Do | | | |
| 2444 | +81.46 | 17 21 50 Z | 1810 Z | Do | | | |
| 2445 | +56.14 | 19 03 37 Z | 1949 Z | Do | | | |

TROPICAL STORM "NANETTE" - 9/30/75 (0000Z-2400Z)



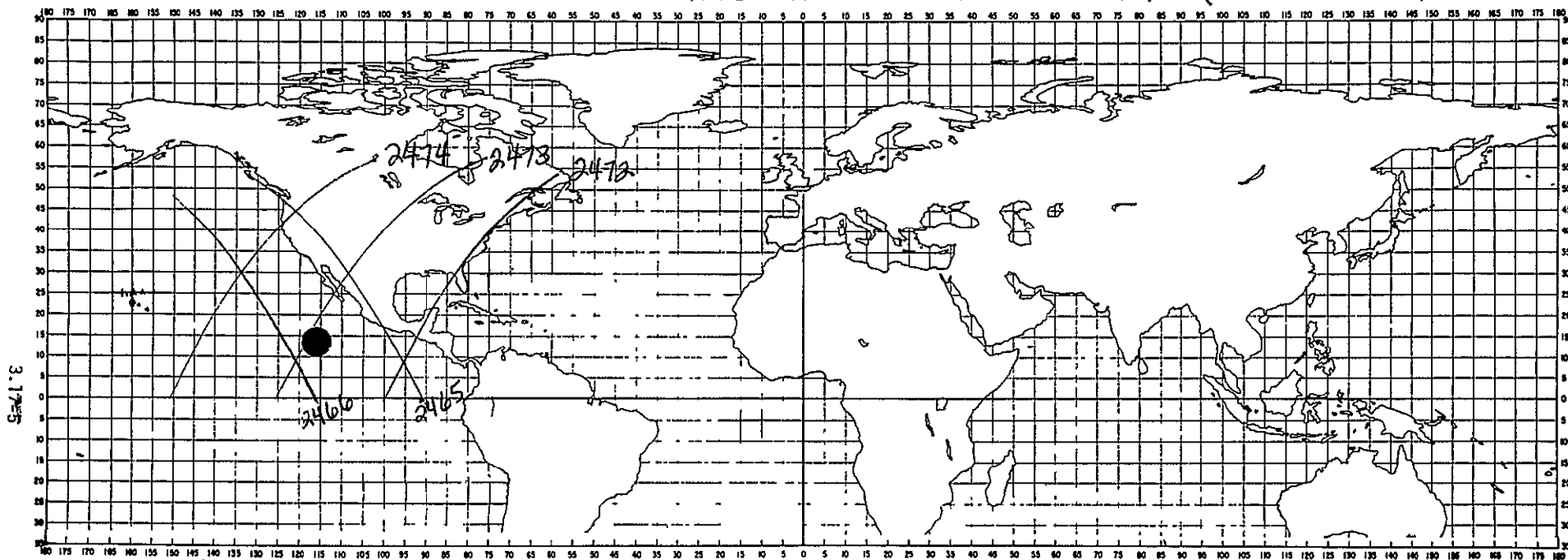
3 17-4

LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 12.5N | 110.5 W |
| 0600Z | 12.3 | 111.0 |
| 1200Z | 12.6 | 111.8 |
| 1800Z | 12.7 | 112.3 |
| 2400Z | 12.8 | 113.0 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2451 | -95.80 | 05 14 19 Z | 0519 Z | No | | | |
| 2452 | -121.13 | 06 56 06 Z | 0657 Z | No | | | |
| 2458 | +86.94 | 17 06 49 Z | 1756 Z | No | | | |
| 2459 | +61.61 | 18 48 36 Z | 1934 Z | No | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL STORM "NANETTE" - 10/1/75 (0000Z - 2400Z)

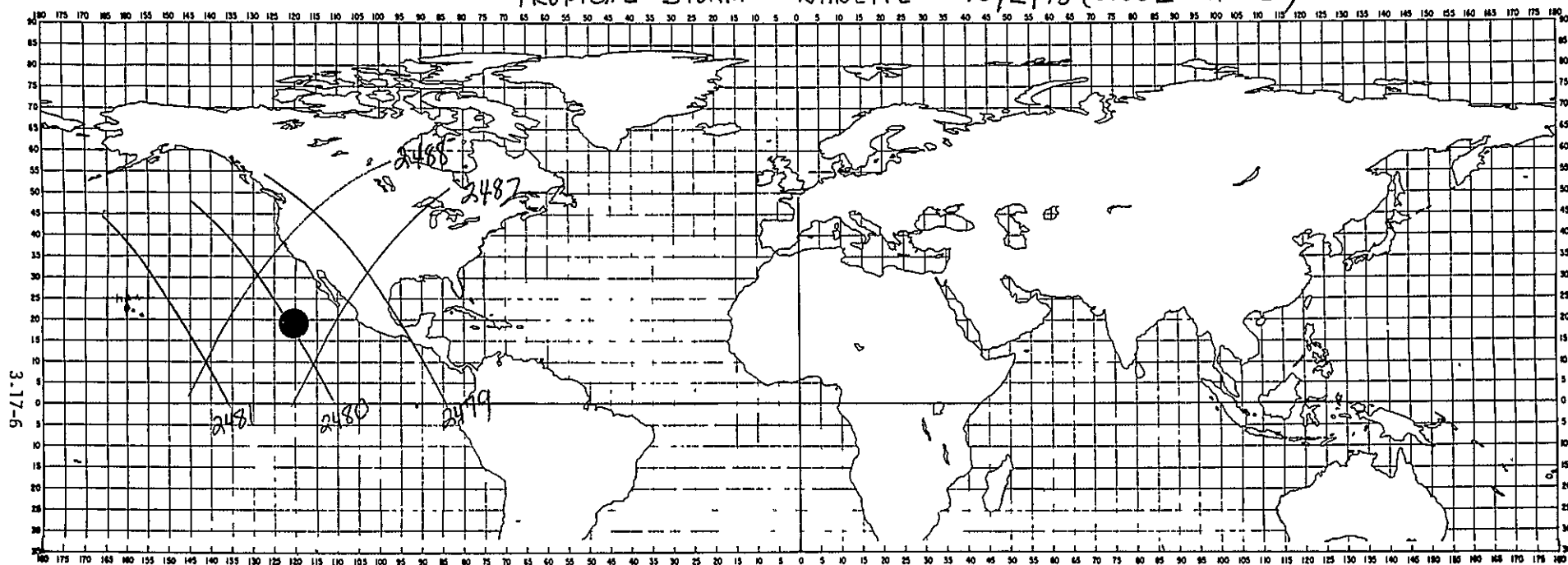


LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 12.8N | 113.0W |
| 0600Z | 13.2 | 114.2 |
| 1200Z | 13.0 | 115.4 |
| 1800Z | 13.1 | 116.4 |
| 2400Z | 13.3 | 117.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2465 | -90.33 | 04 59 19 Z | 0505 Z | Do | | | |
| 2466 | -115.65 | 06 41 06 Z | 0643 Z | Do | | | |
| 2472 | +92.41 | 16 51 48 Z | 1742 Z | Do | | | |
| 2473 | +67.09 | 18 33 35 Z | 1921 Z | Do | | | |
| 2474 | +41.16 | 20 15 23 Z | 2048 Z | Do | | | |

TROPICAL STORM "NANETTE" - 10/2/75 (0000Z - 2400Z)



3-17-6

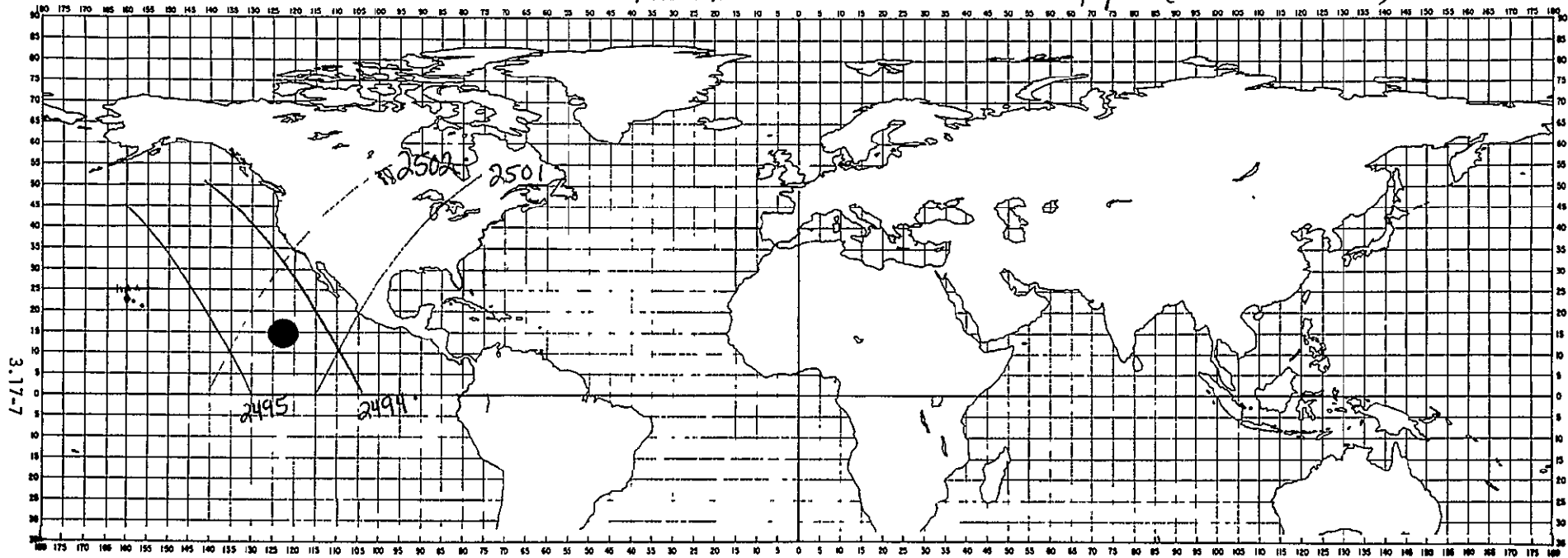
LOCATION

TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 13.3N | 117.5W |
| 0600Z | 13.8 | 118.8 |
| 1200Z | 14.2 | 120.0 |
| 1800Z | 14.5 | 120.8 |
| 2400Z | 14.9 | 121.9 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2479 | -84.85 | 04 44 18 Z | 0453Z | Do | | | |
| 2480 | -110.16 | 06 26 05 Z | 0630Z | Do | | | |
| 2481 | -135.50 | 08 07 52 Z | 0808Z | Do | | | |
| 2487 | +78.56 | 18 18 35 Z | 1906Z | Do | | | |
| 2488 | +47.24 | 20 00 22 Z | 2044Z | 203835 | 211357 | 802 | 162 |

TROPICAL STORM "NANETTE" - 10/3/75 (0000Z - 2400Z)



3.17-7

LOCATION TROPICAL STORM

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 14.9N | 121.9W |
| 0600Z | 15.0 | 122.5 |
| 1200Z | 14.9 | 123.2 |
| 1800Z | 14.6 | 124.0 |
| 2400Z | 14.0 | 125.0 |

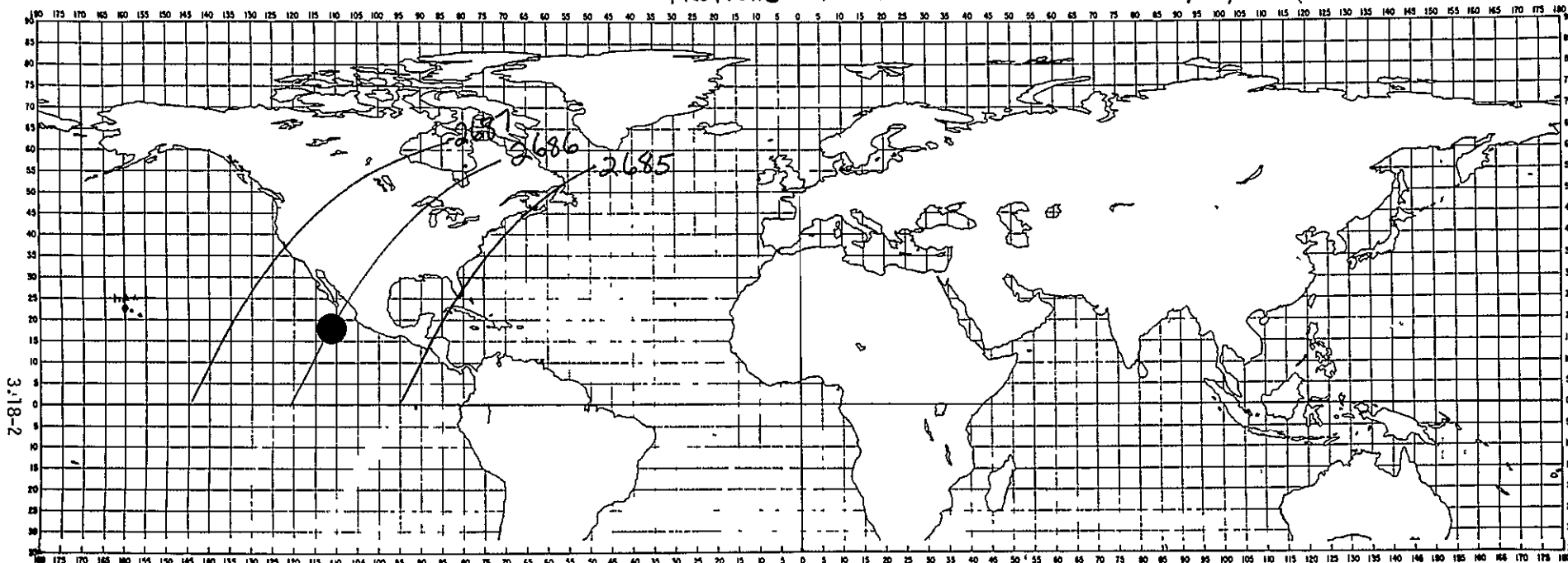
| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2494 | -104.70 | 06 11 04 Z | 0617Z | Do | | | |
| 2495 | -130.02 | 07 52 51 Z | 0755Z | Do | | | |
| 2501 | +78.03 | 18 03 34 Z | 1852Z | Do | | | |
| 2502 | +52.71 | 19 45 21 Z | 2030Z | 202431 | 203254 | 802 | 180 |

STORM: TROPICAL CYCLONE SEVENTEEN

DATE: OCT 16 - OCT 17, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|-------|-------------|----------|-----------|------------------|---------------|---------------------|
| | | Latitude | Longitude | | | |
| 10/16 | 1800Z | 18.1N | 111.1W | | 25 | Tropical Depression |
| 10/17 | 0000Z | 18.0N | 111.0W | | 25 | Tropical Depression |
| | 0600Z | 18.0 | 111.0 | | 25 | |
| | 1200Z | 18.0 | 111.0 | | 25 | |
| | 1800Z | ---- | ---- | | -- | |

TROPICAL CYCLONE "SEVENTEEN" - 10/16/75 (2400Z)



3.18-2

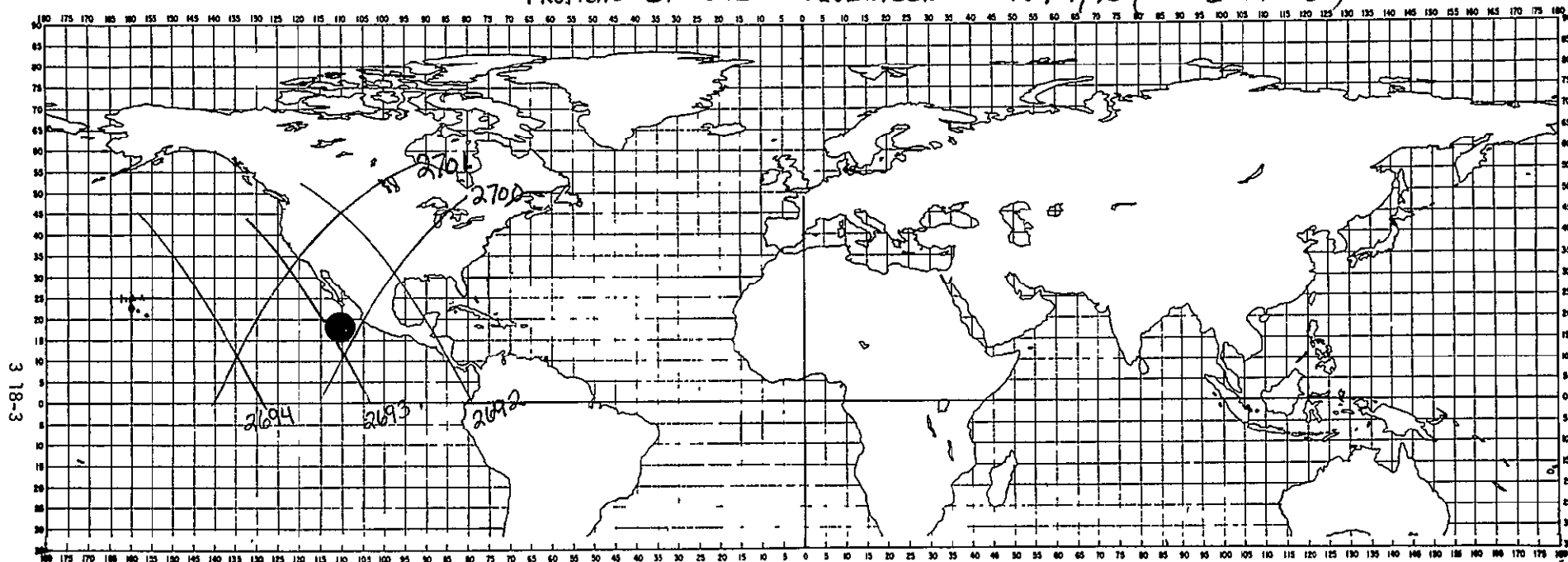
LOCATION

TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 1800Z | 18.1N | 111.1W |
| 2400Z | 18.0 | 111.0 |
| | | |
| | | |
| | | |
| | | |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2685 | +98.57 | 18 11 57 Z | 1901 Z | No | | | |
| 2686 | +73.24 | 19 53 44 Z | 2039 Z | No | | | |
| 2687 | +47.92 | 21 35 31 Z | 2218 Z | No | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

TROPICAL CYCLONE "SEVENTEEN" - 10/17/75 (0000Z - 2400Z)



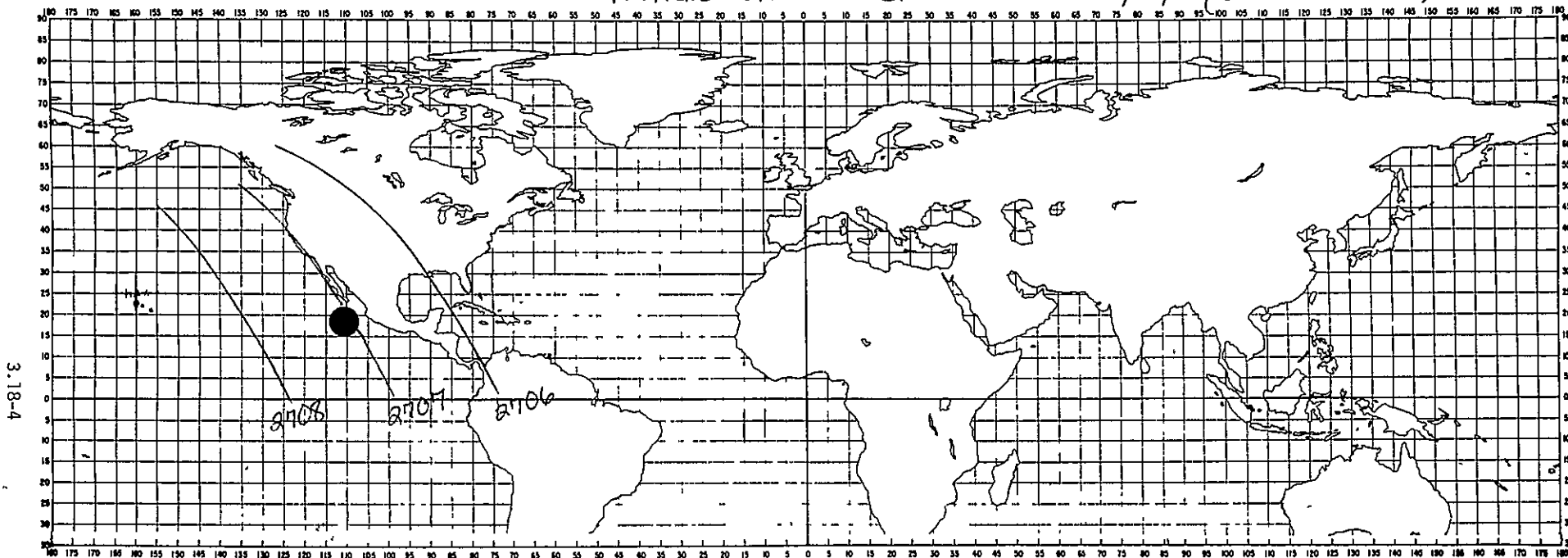
LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 18.0N | 111.0W |
| 0600Z | 18.0 | 111.0 |
| 1200Z | 18.0 | 111.0 |
| 1800Z | 18.9 | 111.0 |
| 2400Z | 18.5 | 111.2* |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2692 | -78.69 | 06 04 26 Z | 0613Z | Do | | | |
| 2693 | -104.02 | 07 45 13 Z | 0751Z | Do | | | |
| 2694 | -129.34 | 09 28 01 Z | 0930Z | Do | | | |
| 2700 | +78.72 | 19 38 43 Z | 2025Z | Do | | | |
| 2701 | +53.40 | 21 20 30 Z | 2204Z | Do | | | |

* 24 hour Forecast

TROPICAL STORM "SEVENTEEN" - 10/18/75 (0000Z - 0600Z) *



LOCATION TROPICAL DEPRESSION

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 18.5N* | 111.2W* |
| 0600Z | 18.5 | 111.2* |
| | | |
| | | |
| | | |
| | | |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|---------|---------|------|--------|
| 2706 | -73.22 | 05 49 25 Z | 0559 Z | 055.338 | 0559.36 | 802 | 408 |
| 2707 | -98.54 | 07 31 13 Z | 0737 Z | No | | | |
| 2708 | -123.87 | 09 13 00 Z | 0916 Z | No | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

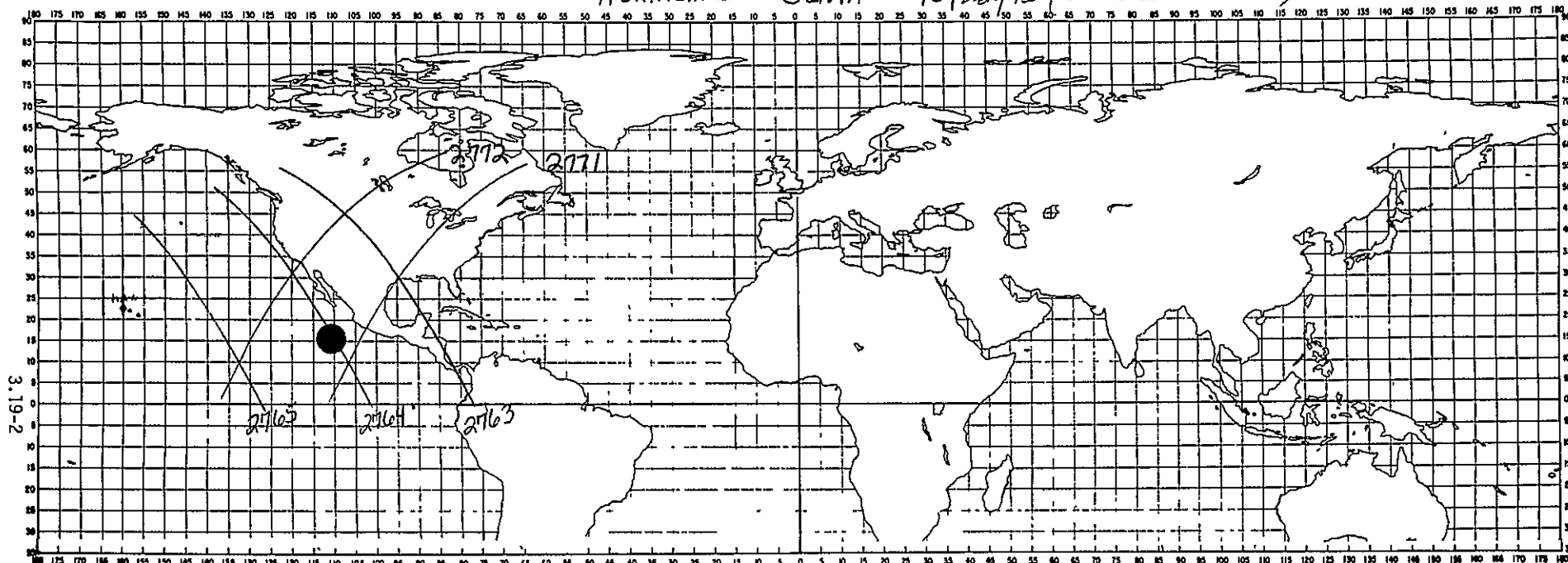
* 24-Hr Forecast

STORM: HURRICANE OLIVIA

DATE: OCT 22 - OCT 25, 1975

| Date | Time GMT | Position | | Pressure (MB) | Wind (KTS) | Stage |
|-------|-------------|----------|-----------|------------------|---------------|---------------------------------------|
| | | Latitude | Longitude | | | |
| 10/22 | 0000Z | 13.7N | 107.6W | | 30 | Tropical Depression Tropical Storm |
| | 0600Z | 14.0 | 109.0 | | 35 | |
| | 1200Z | 14.7 | 110.0 | | 35 | |
| | 1800Z | 15.1 | 110.7 | | 35 | |
| 10/23 | 0000Z | 15.6N | 110.8W | | 40 | Tropical Storm |
| | 0600Z | 16.0 | 110.9 | | 40 | |
| | 1200Z | 16.4 | 110.9 | | 55 | Hurricane |
| | 1800Z | 17.0 | 110.8 | | 75 | |
| 10/24 | 0000Z | 17.6N | 110.5W | | 80 | Hurricane |
| | 0600Z | 18.8 | 110.0 | | 80 | |
| | 1200Z | 20.0 | 109.3 | | 90 | |
| | 1800Z | 21.2 | 108.3 | | 90 | |
| 10/25 | 0000Z | 22.2N | 107.3W | | 95 | Hurricane |
| | 0600Z | 23.2 | 106.3 | | 100 | |

HURRICANE "OLIVIA" - 10/22/75 (0000Z - 2400Z)



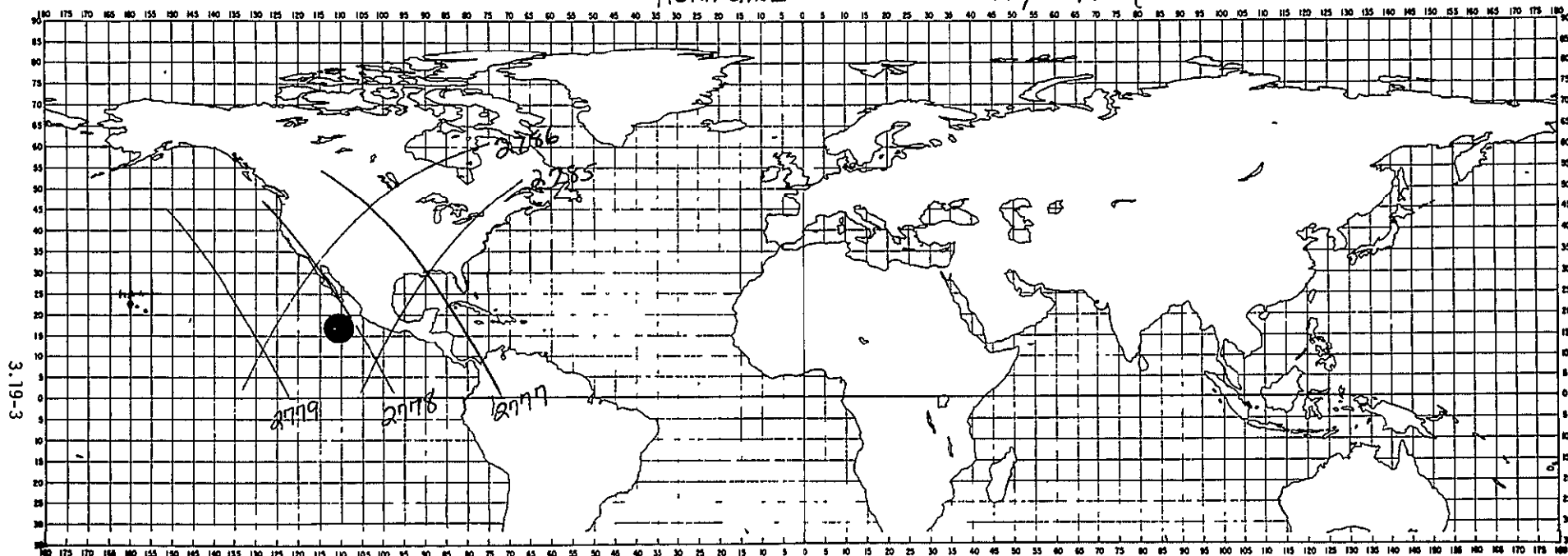
LOCATION

TROPICAL DEPRESSION/TROPICAL STORM (0600Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 13.7 N | 107.6 W |
| 0600Z | 14.0 | 109.0 |
| 1200Z | 14.7 | 110.0 |
| 1800Z | 15.1 | 110.7 |
| 2400Z | 15.6 | 110.8 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2763 | -76.65 | 06 31 09 Z | 0640 Z | 063514 | 064129 | 802 | 444 |
| 2764 | -101.97 | 08 12 56 Z | 0818 Z | No | | | |
| 2765 | -127.29 | 09 54 43 Z | 0956 Z | No | | | |
| 2771 | +80.27 | 20 05 26 Z | 2052 Z | No | | | |
| 2772 | +55.27 | 21 47 13 Z | 2231 Z | No | | | |

HURRICANE "OLIVIA" - 10/23/75 (0000Z - 2400Z)



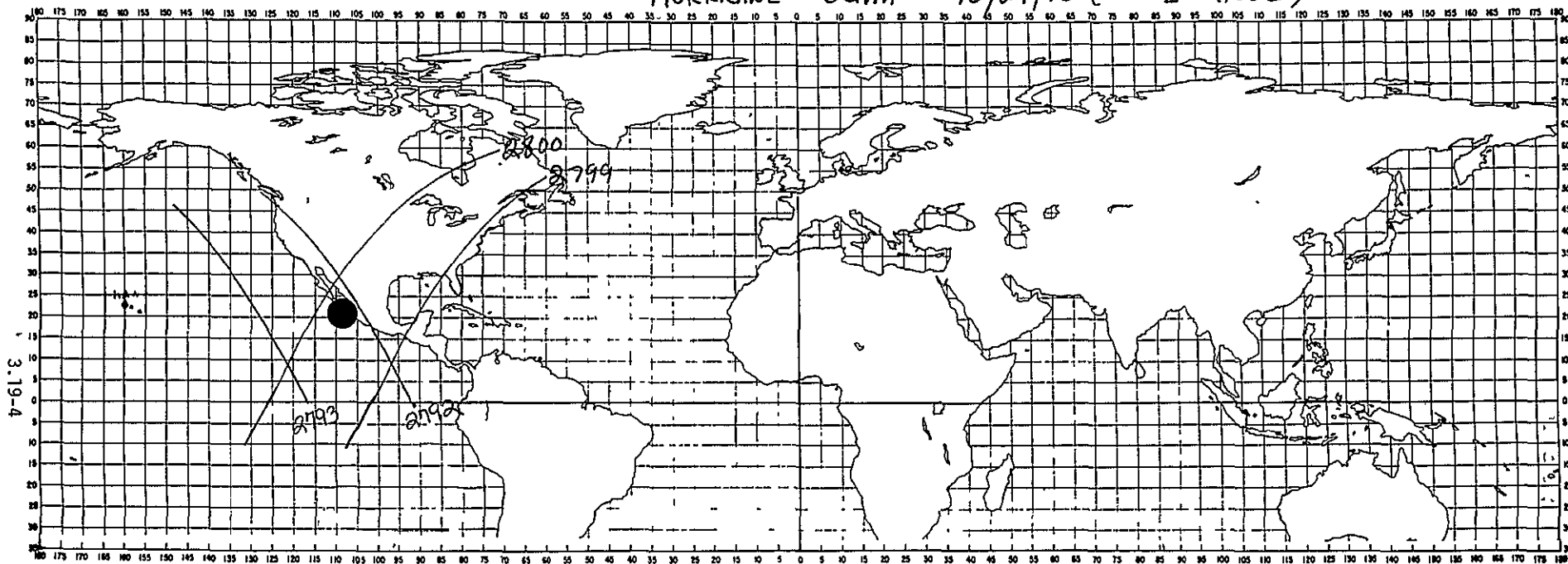
LOCATION

TROPICAL STORM/HURRICANE (1800Z)

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 15.6 N | 110.8 W |
| 0600Z | 16.0 | 110.9 |
| 1200Z | 16.4 | 110.9 |
| 1800Z | 17.0 | 110.8 |
| 2400Z | 17.6 | 110.5 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|--------|--------|------|--------|
| 2777 | -71.17 | 06 1 08 Z | 0626 Z | 062057 | 062640 | 802 | 451 |
| 2778 | -96.49 | 07 55 55 Z | 0802 Z | No | | | |
| 2779 | -121.82 | 09 39 43 Z | 0942 Z | No | | | |
| 2785 | +86.24 | 19 50 25 Z | 2037 Z | 203042 | 203702 | 802 | 456 |
| 2786 | +60.92 | 21 32 12 Z | 2216 Z | No | | | |

HURRICANE "OLIVIA" - 10/24/75 (0000Z - 2400Z)

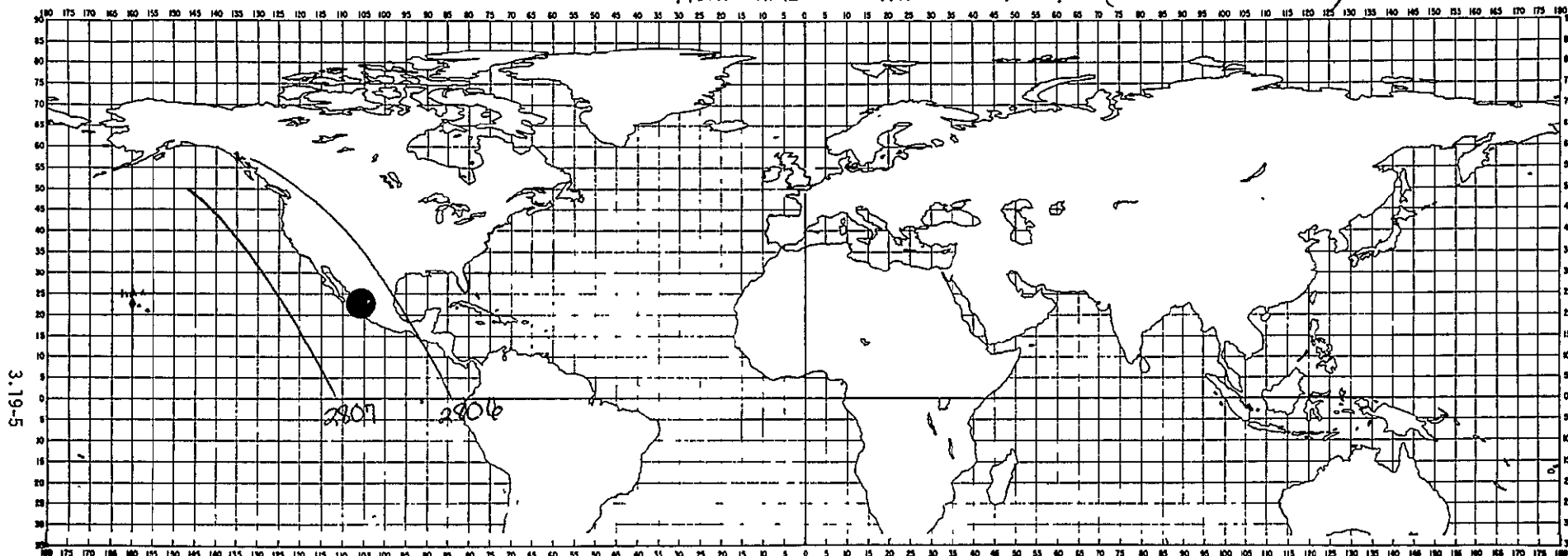


LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|-------|----------|-----------|
| 0000Z | 17.6N | 110.5W |
| 0600Z | 18.8 | 110.0 |
| 1200Z | 20.0 | 109.3 |
| 1800Z | 21.2 | 108.3 |
| 2400Z | 22.2 | 107.3 |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2792 | -91.02 | 07 42 55Z | 0750Z | Do | | | |
| 2793 | -116.34 | 09 24 42Z | 0928Z | Do | | | |
| 2799 | +91.72 | 19 35 24Z | 2022Z | Do | | | |
| 2800 | +66.40 | 21 17 11Z | 2201Z | Do | | | |
| | | | | | | | |
| | | | | | | | |

HURRICANE "OLIVIA" - 10/25/75 (0000Z - 0600Z)



LOCATION HURRICANE

| TIME | LATITUDE | LONGITUDE |
|--------|----------|-----------|
| 0000Z | 23.2N | 107.3W |
| 0600Z* | 23.2 | 106.3 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |

| ORBIT | EQUATOR CROSSING | TIME OF EQUATOR CROSSING | APPROXIMATE PCA | ON | OFF | MODE | UNIQ.# |
|-------|------------------|--------------------------|-----------------|----|-----|------|--------|
| 2806 | -85.55 | 07 27 54 Z | 0736 Z | No | | | |
| 2807 | -110.87 | 09 09 41 Z | 0914 Z | No | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

* At this time, storm reached wind velocity of 100 knots; however, no further data was provided